# ALPHABETICAL INDEX.

[References to descriptions of new genera, species and subspecies in heavy type.]


| A. | Page. |
|---|---|
| Abastor | 596, 603 |
| Abastor erythrogrammus | 603 |
| Abbott, Dr. W. L. | 353, 354, 405 |
| Acanthicus | 15, 42 |
| genibarbis | 42 |
| vicinus hystrix | 42 |
| Acanthis exilipes | 497 |
| hornemanni exilipes | 440 |
| linaria | 440 |
| linaria holbœlli | 497 |
| Acanthogaster | 709 |
| Acantholabrus | 111 |
| Acanthuridæ | 113 |
| Accipiter atricapillus | 432 |
| subniger | 478 |
| tinus | 537 |
| Acentronichthys collettii | 29 |
| leptos | 29 |
| surinamensis | 29 |
| Achiropsis | 73 |
| asphyxiatus | 73 |
| nattereri | 73 |
| Achirus | 72 |
| fischeri | 73 |
| garmani | 73 |
| jenynsi | 73 |
| klunzingeri | 72 |
| lineatus | 73, 84 |
| mazatlanus | 128, 164 |
| Acmæa preteri | 329 |
| scutum | 329 |
| Acœtidæ | 280 |
| Acœtes | 280 |
| lupina | 277, 280 |
| Actinistia | 460 |
| Actinopterygia | 459 |
| Admetovis oxymarus | 215, 219 |
| Ægialitis semipalmata | 430 |
| Æstrelata leucoptera | 490 |
| Ætilis macularia | 428 |
| Ageneiosinæ | 5, 7 |
| Ageneiosus | 7, 13, 18 |
| armatus | 35 |
| atronasus | 35 |
| axillaris | 35 |
| brevifilis | 35 |
| brevis | 35 |
| caucanus | 35 |

| | Page. |
|---|---|
| Ageneiosus darwalla | 35 |
| dentatus | 35 |
| inermis | 35 |
| porphyreus | 35 |
| ucayalensis | 35 |
| valenciennesi | 35 |
| Agoniates | 16 |
| halecinus | 57 |
| Agonidæ | 115 |
| Agonostomus | 18 |
| Agriopus | 114, 704 |
| Agrotis trabalis | 270 |
| Aida | 401 |
| Albacora alalonga | 117 |
| rhynnus | 117 |
| Albula vulpes | 112, 127, 128, 133 |
| Alepocephalus tenebrosus | **545** |
| Alsophis | 618 |
| Alutera | 113 |
| schœpfii | 84 |
| Amblyopsidæ | 2, 3 |
| Amblyrhynchotus | 712, 713 |
| houckenii | 719 |
| oblongus | 719 |
| pardalis | 719 |
| Ameiurus cantonensis | 10 |
| Amia | 112 |
| Amiatidæ | 2 |
| Amiurus | 12, 18 |
| Ammochares | 296, 300, 301 |
| ædificator | **306** |
| Ammocharidæ | 296, 300 |
| Ammodramus candacutus becki | **483** |
| sandwichensis alaudinus | 442 |
| savanna | 442 |
| Ampelis garrulus | 443 |
| Amphiardis | 675 |
| inornatus | 675 |
| Amphignathodontidæ | 168 |
| Amphictenidæ | 297 |
| Amphinome rostrata | 278 |
| Amphinomidæ | 278 |
| Amphitrite ornata | 298 |
| Anableps anableps | 65 |
| elongatus | 65 |
| Anachis coronata | 318 |
| fluctuata | 318 |
| rugosa | 318 |

| | Page. |
|---|---|
| Anachis rugulosa | 319 |
| scalarina | 319 |
| serrata | 319 |
| varia | 319 |
| Anacyrtus | 15 |
| gibbosus | 57 |
| knerii | 57 |
| limæsquamis | 57 |
| pauciradiatus | 57 |
| sanguineus | 57 |
| tectifer | 57 |
| Anarrhichas | 115 |
| Anarrhichthys | 115 |
| Anas americana | 420 |
| boschas | 420 |
| carolinensis | 420 |
| obscura | 420 |
| strepera | 420 |
| Anchisomus | 708 |
| angusticeps | 709 |
| caudacinctus | 708 |
| reticularis | 708 |
| Ancistrodon | 681, 682, 684 |
| bilineatus | 682 |
| contortrix | 682, 683 |
| piscivorus | 682, 683, 684 |
| Ancistrus | 14 |
| calamita | 43 |
| chagresi | 43 |
| cirrhosus | 43 |
| dubius | 43 |
| hoplogenys | 43 |
| leucostictus | 43 |
| stigmaticus | 43 |
| temminckii | 43 |
| Ancylopsetta | 110 |
| Anguilidæ | 3 |
| Anguilla anguilla | 117 |
| rostrata | 94 |
| Anniellidæ | 717 |
| Anodonta anatina | 106 |
| californiensis | 106 |
| fluviatitis | 106 |
| imbecilis | 106 |
| nuttalliana | 106 |
| oregonensis | 106 |
| wahlamatensis | 106 |
| Anodus | 16 |
| Anomia lampe | 308 |
| Anostomatinæ | 6, 8, 10 |
| Anostomus | 14 |
| anostomus | 50 |
| dissimilis | 50 |
| fasciatus | 50 |
| gracilis | 50 |
| isognathus | 50 |
| knerii | 50 |
| masutus | 50 |
| platæ | 50 |
| sagittarius | 50 |
| salmoneus | 50 |
| trimaculatus | 50 |
| vittatus | 50 |
| Anser albifrons gambeli | 423 |
| Antennarius | 113 |

| | Page. |
|---|---|
| Antennarius reticularis | 566 |
| Anthrodira | 454 |
| Anthus pensiloanicus | 445 |
| Antrostomus rufomaculatus | 465 |
| sericei caudatus | 466 |
| vociferus | 466, 536 |
| Aphanacanthus | 712 |
| Aphanopus | 117 |
| Aphiocharax | 16 |
| alburnus | 55 |
| filigerus | 55 |
| pusillus | 55 |
| Aphoristia plagiusa | 84 |
| Aphredoderidæ | 2, 3, 116 |
| Aphritis | 305 |
| porosus | 305 |
| undulatus | 305 |
| Aplonichthys unicolor | 73 |
| Aplochiton | 17 |
| tæniatus | 64 |
| zebra | 64 |
| Aplochitonidæ | 3, 5, 11 |
| Apsicephalus | 707, 712 |
| Aquila chrysaëtos | 433 |
| Arabella opalina | 288 |
| Arapaima | 17 |
| gigas | 64 |
| Arapaimidæ | 3 |
| Arca formosa | 309 |
| gradata | 309 |
| labiata | 310 |
| pacifica | 309 |
| reeviana | 310 |
| solida | 309 |
| Archibuteo lagopus sancti-johannis | 432 |
| Archosargus probatocephalus | 90 |
| Ardea purpurea | 493 |
| Arenicola | 300 |
| cristata | 289 |
| Arenaria interpres | 430 |
| Arges | 17 |
| longialis | 38 |
| pernanus | 38 |
| prenadilla | 37 |
| sabalo | 37 |
| taczanowskii | 38 |
| whymperi | 38 |
| Argiidæ | 3, 6, 7, 37 |
| Aricia ornata | 292 |
| rubra | 292 |
| Ariciidæ | 292 |
| Arothron | 706, 707, 712 |
| hispidus | 719 |
| meleagris | 719 |
| Arremon aurantiirostris | 343 |
| saturatus | 345 |
| Asinea | 590 |
| Asio accipitrinus | 436 |
| Aspredinidæ | 3, 6, 7, 10 |
| Aspredo | 15 |
| aspredo | 26 |
| cotylephorus | 26 |
| filamentosus | 26 |
| nematophorus | 26 |
| sicuephorus | 26 |

| | Page. |
|---|---|
| **Aspredo tibicen** | 26 |
| **Asterophysus batrachus** | 33 |
| **Astralium buschii** | 331 |
| **Astroblepus** | 16, 20 |
| grixalvii | 38 |
| **Astronotus** | 14, 16 |
| acaroides | 69 |
| adspersa | 68 |
| amphacanthoides | 69 |
| autochthon | 69 |
| bimaculata | 68 |
| cœruleopunctata | 68 |
| coryphænoides | 69 |
| crassa | 69 |
| dorsigera | 68 |
| efasciatus | 69 |
| facetus | 68 |
| festivus | 69 |
| filamentosus | 68 |
| freniferus | 68 |
| fusco-maculatus | 68 |
| gymnopoma | 68 |
| hypsosticta | 68 |
| imperialis | 69 |
| krausei | 69 |
| latifrons | 68 |
| maronii | 68 |
| minuta | 68 |
| nassa | 68 |
| oblongus | 69 |
| obscura | 68 |
| ocellata | 68 |
| planifrons | 68 |
| portalegrensis | 68 |
| psittacus | 68 |
| pulchra | 68 |
| punctulata | 68 |
| severus | 68 |
| spectabilis | 69 |
| subocularis | 68 |
| syspilus | 68 |
| tetramerus | 68 |
| thayeri | 68 |
| unipunctata | 68 |
| vittata | 68 |
| **Astroscopus** | 83 |
| **Atheresthes** | 110 |
| **Atherinidæ** | 3, 66 |
| **Atherinops insularum** | **549** |
| regis | 126, 137 |
| **Atomarchus** | 645 |
| **Auchenipterichthys** | 15 |
| longimanus | 34 |
| thoracatus | 34 |
| **Auchenipterinæ** | 5, 7, 33 |
| **Auchenipterus asper** | 126, 163 |
| brachyurus | 35 |
| fordicei | 35 |
| nuchalis | 35 |
| **Aulacorhamphus prasinus** | 471 |
| **Austrolabrus** | 404 |
| maculatus | 404 |
| **Autolytus varians** | 282 |
| **Automolus pallidigularis** | 471 |
| **Avicula sterna** | 309 |

| | Page. |
|---|---|
| **Axiothea mucosa** | **294** |
| **Aythyia affinis** | 421 |
| collaris | 421 |
| marila nearctica | 421 |
| vallisneria | 421 |

B.

| | Page. |
|---|---|
| **Bagrinæ** | 5, 10 |
| **Bagropsis** | 16 |
| reinhardti | 30 |
| **Bairdiella** | 86 |
| chrysura | 88 |
| icistia | 128, 159 |
| **Balistes** | 113 |
| polylepis | 127, 164 |
| **Balistidæ** | 108 |
| **Barrows, Prof. W. B.** | 411 |
| **Bascanium** | 621 |
| constrictor | 622, 623, 624, 625, 635 |
| flagelliforme | 625, 636 |
| laterale | 627, 628 |
| aurigulum | 629 |
| mentovarium | 622, 623 |
| ornatum | 629 |
| piceum | 625 |
| schottii | 629 |
| semilineatum | **626** |
| tæniatum | 629 |
| laterale | 628 |
| vetustus | 624 |
| **Basileuterus delattrii** | 340, 527 |
| melanogenys | 528 |
| mesochrys | 340 |
| mesochrysus | 342 |
| rufifrons | 341, 342 |
| salvini | **342** |
| **Batrachidæ** | 4, 5, 7, 8 |
| **Batrachoides pacifici** | 72 |
| **Batrachops** | 707, 714 |
| psittacus | 720 |
| **Batrachus tau** | 85, 86 |
| **Belding, Mr. L** | 355, 411, 512 |
| **Bellona exilis** | 109 |
| **Belone stoltzmanni** | 135 |
| **Belonidæ** | 3, 7, 8 |
| **Belonesox** | 18 |
| **Benedenia denecnsis** | 461 |
| **Bergenia mexicana** | 594 |
| **Beridia** | 702 |
| fiava | 702, 703 |
| **Bivonia compacta** | 326 |
| **Blanchardia** | 401 |
| **Blenniidæ** | 4, 115 |
| **Blennius** | 115 |
| **Boa imperator** | 590 |
| **Bodianus acanthistius** | **552** |
| **Boidæ** | 590 |
| **Bollmannia ocellata** | **555** |
| macropoma | **556** |
| stigmatura | **556** |
| **Bothriolepis canadensis** | 456 |
| **Bothus maculatus** | 85 |

| | Page. |
|---|---|
| Brachycephalus | 707, 712 |
| Brachyplatystoma filamentosus | 30 |
| reticulatum | 31 |
| rousseauxii | 31 |
| vaillanti | 30 |
| Brachyrhamphichthys | 15 |
| artedi | 62 |
| brevirostris | 62 |
| elegans | 62 |
| mülleri | 62 |
| Branta canadensis | 424 |
| hutchinsii | 424 |
| occidentalis | 424 |
| nigricans | 424 |
| Breviperca | 401 |
| Brevoortia tyrannus | 93 |
| Brisbania | 702 |
| Brochis | 16 |
| bicarinatus | 44 |
| cœruleus | 44 |
| dipterus | 44 |
| semiscutatus | 44 |
| taiosh | 44 |
| Brown, Mr. Herbert | 501 |
| Brycon | 14 |
| alburnus | 55 |
| atricandatus | 55 |
| bahiensis | 55 |
| brevicauda | 55 |
| capito | 55 |
| carpophagus | 55 |
| cephalus | 56 |
| chagrensis | 55 |
| dentex | 55 |
| devillei | 55 |
| erythropterum | 56 |
| falcatus | 55 |
| ferox | 55 |
| hilarii | 55 |
| labiatus | 55 |
| lineatus | 55 |
| longiceps | 55 |
| lundii | 55 |
| melanopterum | 56 |
| moorei | 55 |
| nattereri | 55 |
| opalinus | 55 |
| orbignyanus | 55 |
| orthotænia | 55 |
| pesu | 55 |
| reinhardti | 55 |
| rodopterus | 55 |
| rubricauda | 55 |
| schomburgkii | 55 |
| stolzmanni | 55 |
| striatulus | 55 |
| stübelii | 55 |
| Bryconops | 16 |
| alburnoides | 56 |
| lucidus | 56 |
| Buarremon gutturalis | 532 |
| Bubo virginianus arcticus | 437 |
| Buccinum fusiformis | 323 |
| strigillatum | **186** |
| taphrium | **186** |

| | Page. |
|---|---|
| Bulimulus abyssinicus | 98 |
| alternatus | 99 |
| dealbatus | 97 |
| schiedeanus | 98 |
| fairbanksi | 98 |
| ragsdalei | 97, 98 |
| Bulimus alternatus | 99 |
| dealbatus | 98–99 |
| mooreanus | 99 |
| patriarchus | 99 |
| schiedeanus | 98 |
| Bulla adamsi | 314 |
| aspersa | 314 |
| punctulatus | 314 |
| Bulweria bulweri | 490 |
| Bunocephalichthys | 16 |
| hypsinrus | 25 |
| Bunocephalinæ | 25 |
| Bunocephalus | 15 |
| aleuropsis | 26 |
| bicolor | 26 |
| gronovii | 26 |
| knerii | 26 |
| melas | 26 |
| scabriceps | 26 |
| verrucosus | 26 |
| Buteo swainsoni | 432 |

C.

| | |
|---|---|
| Calamorichthys | 112 |
| Calamus brachysomus | 127, 153 |
| Calcarius lapponicus | 441 |
| pictus | 441 |
| Calidris arenaria | 427, 472 |
| Callechelys peninsulæ | **548** |
| Callichthyidæ | 3, 6, 7 |
| Callichthys | 13, 18 |
| arcifer | 43 |
| asper | 32 |
| callichthys | 12 |
| Callista circinata | 311 |
| concinna | 311 |
| Callophysinæ | 5, 7 |
| Callophysus | 15 |
| macropterus | 27 |
| Callyodontichthys | 398 |
| Calypte annæ | 172, 169, 171 |
| Calyptogena | **189** |
| pacifica | **190** |
| Campylerhynchus capistratus | 518 |
| castaneus | 518 |
| Cancellaria affinis | 182 |
| bullata | 183 |
| cassidiformis | 182, 315 |
| chrysostoma | 315 |
| clavatula | 315 |
| crawfordiana | **182** |
| mitriformis | 315 |
| modesta | 183 |
| obesa | 182 |
| tritonidea | 183 |
| urceolata | 182 |
| vetusta | 183 |
| Canthigaster | 113, 706, 707, 708, 709, 710 |
| punctatissimus | 720 |

| | Page. |
|---|---|
| **Canthigasteridæ** | 710, 719, 720 |
| **Canthigasterinæ** | 710 |
| **Canthileptes** | 709 |
| **Canthogaster** | 710 |
| lobatus | 709 |
| **Canthogastrini** | 710 |
| **Canthophrys** | 709 |
| **Capitellidæ** | 293 |
| **Caragola mordax** | 24 |
| **Carangidæ** | 116, 117 |
| **Caranx caballus** | 127, 128, 138 |
| chrysos | 87, 138 |
| hippos | 128, 138 |
| latus | 128, 138 |
| speciosus | 128, 138 |
| **Carapus** | 14 |
| fasciatus | 62 |
| **Cardita laticostata** | 310 |
| **Cardium erinaceus** | 310 |
| laticostatum | 311 |
| muricatum | 310 |
| obovale | 311 |
| panamense | 311 |
| planicostatum | 311 |
| procerum | 310 |
| rostrum | 310 |
| senticosum | 310 |
| **Careproctus melanurus** | **560** |
| **Carphophiops** | 596 |
| amœnus | 596 |
| vermis | 597 |
| **Castostomidæ** | 3 |
| **Cassis abbreviata** | 324 |
| **Cataphracti** | 701 |
| **Catharus fumosus** | 517, 518 |
| melpomene | 517 |
| mexicanus | 517 |
| **Catodonta** | 589 |
| **Catoprion** | 16 |
| mento | 61 |
| **Catostomidæ** | 2 |
| **Catulus brunneus** | **542** |
| cephalus | **541** |
| xaniurus | **540** |
| **Celæna egans** | 252 |
| infecta | 252 |
| punctifera | 252 |
| **Cemophora** | 602 |
| coccinea | 602 |
| **Centrarchidæ** | 2, 3, 116 |
| **Centrarchus cyanoperca** | 73 |
| **Centromochlus** | 15 |
| aulopygius | 34 |
| heckelii | 34 |
| intermedius | 34 |
| oncinus | 34 |
| perugiæ | 34 |
| steindachneri | 34 |
| **Centropomus grandoculatus** | 126, 141 |
| undecimalis | 128, 141 |
| viridis | 141 |
| striatus | 91 |
| **Cephalacanthidæ** | 115 |
| **Ceratodus** | 8 |
| **Ceratohyla** | 168 |

| | Page. |
|---|---|
| **Cerithium interruptum** | 326 |
| maculosum | 325 |
| stercus-muscarum | 325 |
| **Ceryle alcyon** | 437 |
| superciliosa stictoptera | 471 |
| **Cetopsinæ** | 36 |
| **Cetopsis** | 12, 14 |
| candiru | 36 |
| cœcutiens | 36 |
| gobioides | 36 |
| occidentalis | 36 |
| plumbeus | 36 |
| ventralis | 36 |
| **Chætobranchopsis** | 16 |
| orbicularis | 70 |
| **Chætobranchus** | 15 |
| flavescens | 70 |
| faber | 86, 160 |
| semifasciatus | 70 |
| **Chætodipterus zonatus** | 127, 160 |
| **Chætodon humeralis** | 128, 160 |
| **Chætodontidæ** | 108, 113 |
| **Chætopteridæ** | 290 |
| **Chætopterus** | 300 |
| pergamentaceus | 290 |
| **Chætostomus** | 14, 17, 20 |
| branickii | 43 |
| bufonius | 43 |
| dermorhynchus | 43 |
| erinaceus | 43 |
| fischeri | 43 |
| guairensis | 43 |
| gymnorhynchus | 43 |
| jellskii | 43 |
| latifrons | 43 |
| loborhynchus | 43 |
| macrops | 43 |
| malacops | 43 |
| medirostris | 43 |
| microps | 43 |
| nudiceps | 43 |
| sericeus | 43 |
| stannii | 43 |
| tackzanowskii | 43 |
| tectirostris | 43 |
| variolus | 43 |
| **Chalceus** | 15 |
| erythrurus | 55 |
| labrosus | 73 |
| latus | 73 |
| macrolepidotus | 55 |
| tæniatus | 73 |
| **Chalcinus** | 14 |
| albus | 56 |
| angulatus | 56 |
| curtus | 56 |
| fuscus | 56 |
| signatus | 56 |
| villatus | 56 |
| auritus | 56 |
| culter | 56 |
| elongatus | 56 |
| güntheri | 56 |
| magdalenæ | 56 |
| paranensis | 56 |

| | Page. |
|---|---|
| Chalcinus pictus | 56 |
| Chama echinata | 310 |
| Chamælo abbotti | **353** |
| bifidus | 354 |
| fischeri | 354 |
| roperi | 354 |
| Chanos chanos | 112, 127, 133 |
| Characidium | 17 |
| etheostoma | 50 |
| fasciatum | 50 |
| purpuratum | 50 |
| steindachneri | 50 |
| Characinidæ | 3, 5, 6, 8, 10, 113, 116 |
| Characodon | 18 |
| Charadrius dominicus | 429 |
| aquatarola | 429 |
| Charina | 511, 512, 591, 592 |
| bottæ | 592, 593 |
| brachyops | 514, 592 |
| plumbea | 514 |
| trivirgata | 591 |
| Charinidæ | 592 |
| Charitonetta albeola | 421 |
| Chasmodes | 86 |
| bosquianus | 85 |
| Cheilichthys | 708, 712 |
| Cheirodon | 14 |
| agassizii | 54 |
| eques | 54 |
| insignis | 54 |
| interruptus | 54 |
| nattereri | 54 |
| pequira | 54 |
| piaba | 54 |
| pisciculus | 54 |
| pulcher | 54 |
| Chelonodon | 699, 706, 711, 712 |
| Chen hyperborea | 423 |
| hyperborea nivalis | 423 |
| rossii | 423 |
| Chilodus | 15 |
| labyrinthicus | 49 |
| punctatus | 49 |
| Chilomeniscus | 593 |
| cinctus | 594, 595 |
| ephippicus | 594, 595 |
| mexicanus | 594 |
| stramineus | 594, 595 |
| cinctus | 594 |
| fasciatus | 595 |
| stramineus | 595 |
| Chilomycterus | 83 |
| Chilopoma rufopunctatum | 83 |
| Chionactis | 604 |
| diasii | 605 |
| occipitalis | 605 |
| occipitalis annulatus | 605 |
| Chirodon | 19 |
| Chirostoma | 18 |
| argentinensis | 66 |
| bonariensis | 66 |
| microlepidota | 66 |
| Chiton janeirensis | 335 |
| spiniferus | 334 |
| Chlopsis equatorialis | **347** |

| | Page. |
|---|---|
| Chlaronerpes caboti | 476 |
| simplex | 536 |
| Chloroscombrus chrysurus | 87, 139 |
| orqueta | 128, 139 |
| Chlorospingus piliatus | 531 |
| Chlorostoma ater | 331 |
| gallina | 331 |
| Chœrojulis | 398 |
| castanea | 398 |
| Chondrostei | 460 |
| Chonerhinidæ | 697, 698, 715, 719 |
| Chonerhinids | 715 |
| Chonerhinos | 697 |
| modestus | 697 |
| Chonerhinus | 697, 698, 699, 705, 712, 720 |
| naritus | 720 |
| Chordeiles virginianus | 438 |
| Chorus belcheri | 180 |
| Chriolepis | **537** |
| minutillus | **538** |
| Chromys ocellata | 73 |
| Chrysodomus acosmius | **188** |
| eucosmius | **187** |
| halibrectus | **188** |
| hypolispus | **188** |
| ithius | **187** |
| periscelidus | **187** |
| phœniceus | **187** |
| Cichla conibus | 60 |
| multifasciata | 60 |
| ocellaris | 60 |
| temensis | 60 |
| Cichlidæ | 4, 5, 8, 67, 116 |
| Circus hudsonius | 432 |
| Cirrhisoma | 706 |
| Cirrhitidæ | 701, 703 |
| Cisticola bicenniceps | 496 |
| Citharichthys gilberti | 124, 126, 164 |
| microstomus | 84 |
| sordidus | 110 |
| spilopterus | 72, 124, 164 |
| Citharininæ | 6 |
| Cladistia | 460 |
| Clangula hiemalis | 421 |
| Clementia subdiaphana | 185 |
| Clinus | 115 |
| Clivicola riparia | 443 |
| Colonophis | 674 |
| kirtlandii | 666, 674 |
| Clupea alosa | 112 |
| amazonica | 63 |
| harengus | 112 |
| libertatis | 134 |
| pilchardus | 112 |
| sprattus | 112 |
| Clupeidæ | 3, 63, 112 |
| Clymenella torquata | 294 |
| Cnemidophorus martyris | 407 |
| Cnemidopliorus martyris | **407** |
| Cobitidæ | 3, 10 |
| Coccosteus decipiens | 450 |
| Coccygus minor | 536 |
| Cochliodon cochliodon | 42 |
| Colaptes auratus | 170, 172, 438 |
| Colomesinæ | 730 |

| | Page. |
|---|---|
| **Colomesus** | 15, 707, 714 |
| **psittacus** | 73, 714, 720 |
| **Coluber** | 630 |
| **confinis** | 630, 631, 632 |
| **emoryi** | 636 |
| **guttatus** | 630, 631, 632, 634 |
| **guttatus** | 633 |
| **sellatus** | 633 |
| **lætus** | 636 |
| **obsoletus** | 634 |
| **lemniscatus** | 635 |
| **obsoletus** | 635 |
| **quadrivittatus** | 633 |
| **rosaceus** | 633 |
| **vulpinus** | 630, 631, 632 |
| **Colubridæ** | 593 |
| **Columbella fuscata** | 318 |
| **hæmastoma** | 318 |
| **major** | 318 |
| **paytensis** | 318 |
| **strombiformis** | 318 |
| **Colymbus auritus** | 415 |
| **holbœlli** | 415 |
| **Comastes** | 415 |
| **quincunciatus** | 617 |
| **Conchelepas fusiformis** | 335 |
| **peruvianus** | 335 |
| **Conger conger** | 93, 117 |
| **Congiopodus** | 704 |
| **Conopeia** | 603, 605 |
| **lineatus** | 605 |
| **Conorhynchos conirostris** | 30 |
| **glaber** | 30 |
| **Contia** | 599 |
| **episcopa** | 600, 601 |
| **isozona** | 601 |
| **torquata** | 601 |
| **isozona** | 601 |
| **mitis** | 601 |
| **pygæa** | 600 |
| **Contopus lugubris** | 535 |
| **Conus brunneus** | 315 |
| **gladiator** | 315 |
| **lucidus** | 315 |
| **nux** | 335 |
| **princeps** | 335 |
| **purpurascens** | 315 |
| **Corvus corax principalis** | 439 |
| **Corydoras** | 13 |
| **acutus** | 44 |
| **æneus** | 44 |
| **amphibelus** | 44 |
| **armatus** | 44 |
| **elegans** | 44 |
| **eques** | 44 |
| **hastatus** | 44 |
| **nattereri** | 44 |
| **paleatus** | 44 |
| **punctatus** | 44 |
| **splendens** | 44 |
| **trilineatus** | 44 |
| **Coryphæna** | 117 |
| **Cosmyphiformes** | 395, 397 |
| **Cosmyphus** | 397 |
| **Cottidæ** | 4, 115 |
| **Cottina** | 702 |
| **Crassatella gibbosa** | 310 |
| **Crayracion** | 707, 710, 711 |
| **lævissimus** | 710 |
| **Creagrutus** | 15 |
| **affinis** | 56 |
| **argentea** | 56 |
| **mülleri** | 56 |
| **pernana** | 56 |
| **Creatochanes affinis** | 56 |
| **caudomaculatus** | 56 |
| **melanurus** | 56 |
| **Crenicara** | 16 |
| **elegans** | 69 |
| **Crenicichla** | 14 |
| **acutirostris** | 69 |
| **anthurus** | 70 |
| **brasiliensis** | 69 |
| **adspersa** | 69 |
| **funebris** | 69 |
| **johanna** | 69 |
| **lenticulata** | 69 |
| **lugubris** | 69 |
| **strigata** | 69 |
| **vittata** | 69 |
| **cyanonotus** | 70 |
| **elegans** | 70 |
| **frenata** | 70 |
| **lacustris** | 70 |
| **lepidota** | 70 |
| **lucius** | 70 |
| **macrophthalma** | 70 |
| **obtusirostris** | 69 |
| **orinocensis** | 70 |
| **polysticta** | 70 |
| **proteus** | 70 |
| **argynnis** | 70 |
| **punctata** | 70 |
| **reticulata** | 70 |
| **saxatilis** | 70 |
| **semifasciata** | 70 |
| **Crenilabrus** | 398 |
| **melops** | 398 |
| **Crenuchinæ** | 6, 8, 11, 59 |
| **Crenuchus** | 15 |
| **spilurus** | 59 |
| **Crepidula aculeata** | 327 |
| **arenata** | 327 |
| **dilatata** | 327 |
| **excavata** | 328 |
| **lessoni** | 328 |
| **strigata** | 327 |
| **Cristiceps** | 115 |
| **Crossopterygia** | 459, 460 |
| **Crotalidæ** | 681 |
| **Crotalophorus** | 684, 687 |
| **catenatus** | 684, 685 |
| **edwardsii** | 685 |
| **miliarius** | 684, 685 |
| **ravus** | 684 |
| **Crotalus** | 686 |
| **adamanteus** | 689 |
| **adamanteus** | 690 |
| **atrox** | 690 |
| **ruber** | 691 |

| | Page. |
|---|---|
| Crotalus adamanteus scutulatus | 690 |
| basiliscus | 686, 688 |
| cerastes | 686, 687, 689 |
| confluentus | 691 |
| confluentus | 692 |
| lecontei | 692 |
| lucifer | 692 |
| pulverulentus | 692 |
| enyo | 693 |
| horridus | 693 |
| lepidus | 692 |
| mitchellii | 694 |
| molossus | 689 |
| polystictus | 686, 689 |
| pyrrhus | 694 |
| tigris | 693 |
| triseriatus | 689 |
| Crucibulum imbricatum | 327 |
| spinosum | 327 |
| Crymophilus fulicarius | 425, 492 |
| Cryptodon bisectus | 189 |
| Cryptogramma subimbricata | 311 |
| subrugosa | 311 |
| Ctenacanthus amblyxiphias | 449 |
| Ctenolabrus | 111 |
| Cuculus canorus | 494 |
| kelungensis | 493 |
| poliocephalus | 495 |
| tamaulicus | 494 |
| telephonus | 494 |
| Curimatinæ | 6, 8, 10 |
| Curimatopsis macrolepis | 46 |
| microlepis | 46 |
| Curimatus | 14, 47 |
| alberti | 47 |
| alburnus | 46 |
| lineatus | 46 |
| argenteus | 47 |
| asper | 47 |
| bimaculatus | 47 |
| sialis | 47 |
| trachystethus | 47 |
| cyprinoides | 48 |
| dobula | 47 |
| dorsalis | 47 |
| elegans | 47 |
| bahiensis | 47 |
| essequibensis | 48 |
| falcatus | 48 |
| gilberti | 47 |
| brevipinnis | 47 |
| güntheri | 47 |
| hypostomus | 47 |
| isognathus | 47 |
| knerii | 47 |
| laticeps | 48 |
| latior | 48 |
| leuciscus | 47 |
| lepidurus | 46 |
| leucostictus | 47 |
| macrops | 48 |
| magdalenæ | 47 |
| meyeri | 46 |
| microcephalus | 47 |
| mivartii | 47 |

| | Page. |
|---|---|
| Curimatus nagelii | 47 |
| nasus | 47 |
| ocellatus | 47 |
| planirostris | 48 |
| platanus | 47 |
| plumbeus | 47 |
| rutiloides | 47 |
| schomburgkii | 48 |
| serpæ | 46 |
| simulatus | 48 |
| spiluropsis | 47 |
| spilurus | 47 |
| troschelii | 47 |
| vittatus | 47 |
| Cychla fasciata | 74 |
| flavo-maculata | 74 |
| nigro-maculata | 74 |
| rutilans | 74 |
| toucounarai | 74 |
| trifasciata | 74 |
| Cyclophis | 621 |
| æstivus | 621 |
| Cyclopium | 17 |
| cyclopum | 38 |
| güntheri | 38 |
| Cyclopteridæ | 115 |
| Cyclorhis flavipectus subflavescens | 529 |
| trinitatis | 529 |
| Cynodon | 15 |
| gibbus | 59 |
| vulpinus | 59 |
| Cynolebias bellottii | 64 |
| elongatus | 64 |
| maculatus | 65 |
| porosus | 65 |
| robustus | 65 |
| Cynopotamus | 14 |
| amazonum | 58 |
| argenteus | 58 |
| biserialis | 58 |
| gulo | 58 |
| humeralis | 58 |
| knerii | 58 |
| magdalenæ | 58 |
| Cynoscion macdonaldi | 123, 165 |
| maculatus | 88 |
| othonopterum | 165 |
| parvipinnis | 127, 150 |
| regalis | 88 |
| Cypræa arabicula | 325 |
| exanthema | 325 |
| nigropunctata | 324 |
| picta | 325 |
| punctulata | 324 |
| pustulata | 325 |
| sowerbyi | 325 |
| Cymia tectum | 322 |
| Cyprinidæ | 3, 113, 116 |
| Cyprinodon variegatus | 92 |
| Cyprinodontidæ | 3, 8, 12, 64, 116 |


D


| | |
|---|---|
| Dacnis venusta | 529 |
| Dafila acuta | 420, 421 |
| Dalliidæ | 3 |

| | Page. |
|---|---|
| Dampieria | 401 |
| Dasyatis longus | 127, 132 |
| Dasybatidæ | 7, 24 |
| Dasybranchus | 300 |
| caducus | 293, 300 |
| Decapogon | 15 |
| adspersum | 44 |
| Decodon | 397 |
| Deconychura | **338** |
| Deconychura typica | **339** |
| Delturus | 17 |
| angulicauda | 42 |
| parahybæ | 42 |
| Dendragapus canadensis | 430 |
| Dendroica æstiva | 444 |
| bryanti | 524 |
| castaneiceps | 524 |
| coronata | 444 |
| lawrencii | 532 |
| striata | 444 |
| vieilloti | 524 |
| bryanti | 525 |
| castaneiceps | 525 |
| Dendrornis nana costaricensis | 532 |
| Diadophis | 614 |
| amabilis | 614 |
| docilis | 616 |
| pulchellus | 616 |
| stictogenys | 616 |
| punctatus | 617 |
| regalis | 615 |
| arnyi | 615 |
| regalis | 615 |
| rubescens | 614, 615 |
| Diaglena | 168 |
| Dianema | 16, 44 |
| longibarbis | 44 |
| Dibranchus altanticus | 114 |
| Dicentrarchus punctatus | 111 |
| Dichotomycter | 712 |
| Dicrossus | 16 |
| maculatus | 69 |
| Diglossa plumbea | 529 |
| Dilobomycter | 712 |
| hispidus | 719 |
| Dilobomycterè | 712 |
| Dilobomycter meleagris | 719 |
| Dinichthys terrellii | 450, 451 |
| Diodontidæ | 697 |
| Diodontoidea | 718 |
| Diopatra cuprea | 285 |
| magna | **286** |
| Diplectrum radiale | 127, 128, 142 |
| sciurus | **350** |
| Diplodonta obliqua | 310 |
| Diplodus holbrooki | 90 |
| Diplomystes | 13 |
| papillosus | 26 |
| Diplomystidæ | 3, 6, 7, 9, 10, 26 |
| Diproctacanthus xanthurus | 397 |
| Dipsas annulata | 677 |
| Distichodinæ | 6 |
| Dives dives | 470 |
| Donax punctatostriatus | 312 |
| Doradinæ | 5, 7 |

| | Page. |
|---|---|
| Doras | 14 |
| affinis | 32 |
| albomaculatus | 32 |
| armatulus | 32 |
| asterifrons | 33 |
| brachiatus | 32 |
| calderonensis | 32 |
| castaneo-ventris | 32 |
| cataphractus | 32 |
| costatus | 32 |
| crocodilii | 32 |
| dentatus | 32 |
| dorsalis | 32 |
| hancockii | 32 |
| heckelii | 33 |
| helicophilus | 32 |
| longipinis | 32 |
| maculatus | 32 |
| marmoratus | 32 |
| monitor | 33 |
| nauticus | 33 |
| pectinifrons | 32 |
| spinosissimus | 32 |
| uranoscopus | 32 |
| weddellii | 32 |
| Doricha evelynæ | 169 |
| Dormitator grandisquama | 71 |
| Dorosomidæ | 3 |
| Drilonereis | 288 |
| longa | 288 |
| Dromicus | 505, 614, 618 |
| clavatus | 505 |
| flavilatus | 618 |
| Drymobius | 618, 623 |
| aurigulus | 629 |
| margaritiferus | 504 |
| Dryobates japonicus | 495 |
| Duopalatinus | 16 |
| emarginatus | 31 |
| Dysichthys | 16, 26 |
| coracoideus | 26 |


E.


| | Page. |
|---|---|
| Echidna catenata | 117 |
| nebulosa | 117 |
| zebra | 117 |
| Ectosteorhachis nilidus | 457 |
| Eels, the | 117 |
| Elapadæ | 679 |
| Elapoidis | 506 |
| Elaps | 679 |
| distans | 681 |
| euryxanthus | 681 |
| fulvius | 680 |
| imperator | 679 |
| lemniscatus | 681 |
| maregravii | 680 |
| semipartitus | 679 |
| surinamensis | 680 |
| Elasmobranch from the Permian, a new | 447 |
| Elassomatidæ | 2, 3 |
| Electrophoridæ | 3, 7, 11, 61 |
| Electrophorus | 15 |
| electricus | 61 |
| Eleginops | 305 |

Page.

Eleginus ..... 304, 305
navaga ..... 303, 304
Electris amblyopsis ..... 71
perniger ..... 72
pisonis ..... 71
Ellipesurus ..... 16
spinicauda ..... 25
Ellyria ..... 401
Elopidæ ..... 3
Elopomorphus ..... 46
elongatus ..... 46
melanopogon ..... 46
steatops ..... 46
Elops saurus ..... 93, 112, 127, 128, 133
Emberiza leucocephala ..... 496
pusilla ..... 496
rustica ..... 496
yessoensis ..... 496
Embiotocidæ ..... 114
Empidonax albigularis ..... 535
hammondi ..... 438
Enchelycephali ..... 3
Engina carbonaria ..... 317
ferrugineum ..... 317
pulchra ..... 317
Eopsetta ..... 110
Epapterus ..... 15
dispilurus ..... 34
Ephippion ..... 705, 713, 714
guttifer ..... 714
maculatum ..... 713, 714
Epicrates angulifer ..... 590
Epiglottophis ..... 636
Epinephelus analogus ..... 128, 144
Epipedorhynchus ..... 712
Eremophilus ..... 16, 20
mutisii ..... 37
Ereunetes pusillus ..... 427
Erithacus sibilans ..... 497
Erythrininæ ..... 6, 8, 10, 45
Erythrinus ..... 13
erythrinus ..... 45
longipinnis ..... 45
salvus ..... 45
unitæniatus ..... 45
Erythrolamprus ..... 676
dromiciformis ..... 676
imperialis ..... 676
lateritius ..... 676
venustissimus ..... 676
Eryx ..... 591
Esocidæ ..... 3, 116
Eucometis cassini ..... 473
Euglycera ..... 288
dibranchiata ..... 288, 300
Eulamia fronto ..... 127, 129
platyrhynchus ..... **543**
Eulampis holosericus ..... 172, 169
Eunice ..... 284
articulata ..... 285
ornata ..... **284**
Eunicidæ ..... 284, 300
Eupegurus longicarpus ..... 292
Eupetrichthys ..... 400, 404
angustipes ..... 404

Page.

Euphonia fulvicrissa ..... 539
Euphonia gracilis ..... 531
luteicapilla ..... 530
minuta ..... 531
Eupleura ..... 173
caudata ..... 174
clathrata ..... 175
limata ..... 175
muriciformis ..... 174
nitida ..... 174
pectinata ..... 174
plicata ..... 174
sulcidentata ..... 176
triquetra ..... 174
unispinosa ..... 174
Eurypanopeus ..... 355, 357
Eutænia ..... 645
angustirostris ..... 656
aurata ..... **659**
biscutata ..... 651
butleri ..... 651
chrysocephala ..... 656
cyrtopsis collaris ..... 657
ocellata ..... 657
elegans ..... 651
brunnea ..... **654**
couchii ..... 656
elegans ..... 653
lineolata ..... **655**
marciana ..... 656
ordinoides ..... 654
plutonia ..... 553
vagrans ..... 656
infernalis infernalis ..... 657
vidua ..... **658**
leptocephala ..... 660
macrostemma ..... 651
megalops ..... 650
melanogaster ..... 665
multimaculata ..... 665
nigrilatus ..... 665
phenax ..... 650
proxima ..... 650
pulchrilatus ..... 660
radix ..... 650
rufopunctata ..... 666
rutiloris ..... 651
sackenii ..... 650
saurita ..... 650
scalaris ..... 660
sirtalis ..... 661
concinna ..... 664
dorsalis ..... 663
graminea ..... 662
obscura ..... 663
ordinata ..... 662
parietalis ..... 664
pickeringii ..... 665
semifasciata ..... **662**
sirtalis ..... 662
tetratænia ..... 664
trilineata ..... **665**
sumichrastii ..... 650
Eutrochatella ..... 328
Eurypanopeus ..... 355

Page.

Eurytium ..... 355, 357
Evans, Commander R. D. ..... 355
Eventognathi ..... 3, 9, 10
Exodon ..... 15
paradoxus ..... 58
Exogone gemmifera ..... 281

F.

Falco columbarius ..... 435
islandicus ..... 435
pealei ..... 493
peregrinus anatum ..... 435
richardsonii ..... 436
rusticolus ..... 435
gyrfalco ..... 434
Farancio ..... 604
abacura ..... 604
Farlowella ..... 15
acus ..... 38
amazona ..... 38
carinata ..... 38
gladiola ..... 38
knerii ..... 38
oxyrhynchus ..... 38
Fasciolaria granosa ..... 316
Felichthys ..... 113
Ficimia ..... 603
cana ..... 603
ornata ..... 603
Fin Rays, variation in ..... 118
Fisher, Dr. A. K. ..... 503
Fissurella maxima ..... 333
nigropunctata ..... 333
peruviana ..... 333
picta ..... 334
rubropicta ..... 333
rugosa ..... 333
Fistularia depressa ..... 127, 135
Flarisuga mellivora ..... 169
Fluminicola nuttalliana ..... 104
Fringilla montifringilla ..... 497
Fundulus diaphanus ..... 92
guatemalensis ..... 64
heteroclitus grandis ..... 92
majalis ..... 92
Fusus burnsii ..... 179
cinnamomeus ..... 178
corpulentus ..... 179
dupetithouarsii ..... 316
geniculus ..... 179
harfordi ..... 178
imbricatus ..... 176
kobelti ..... 177
lutcopictus ..... 177
pyruloides ..... 176
robustus ..... 179
sabini ..... 179
ustulatus ..... 178

G.

Gadidæ ..... 4, 116
Gadinia pentagoniostoma ..... 314
Gadus ..... 303
callarias ..... 116, 303

Page.

gracilis ..... 303, 3042
Gadus morrhua ..... 304
navaga ..... 303, 304
wachna ..... 303, 304
Gaidropsarus ..... 116
Galaxias ..... 17
alpinus ..... 64
attenuatus ..... 64
coppingeri ..... 64
gracillimus ..... 64
maculatus ..... 64
Galaxiidæ ..... 3, 5, 11, 64
Galeus dorsalis ..... 127, 129
lunulatus ..... 127, 128
Gallinago delicata ..... 426
Gambusia patruelis ..... 92
Gasteropelecus ..... 14
fasciatus ..... 57
maculatus ..... 57
pectorosus ..... 57
stellatus ..... 56
sternicla ..... 56
strigatus ..... 57
Gasterosteidæ ..... 3, 116
Gastrophysus ..... 708
Gastropterus ..... 8, 12, 15, 17
archæus ..... 66
Geagras ..... 603
Geneion ..... 712
Genicanthus ..... 709
Genidens genidens ..... 26
Geophagus ..... 14
acuticeps ..... 70
agassizii ..... 70
badiipinnis ..... 70
brasiliensis ..... 71
bucephalus ..... 71
crassilabris ..... 71
cupido ..... 70
dæmon ..... 70
gymnogenys ..... 71
jurupari ..... 71
labiatus ..... 71
lapidifera ..... 70
pappaterra ..... 70
pygmæus ..... 71
rhabdotus ..... 71
scymnophilus ..... 71
surinamensis ..... 71
tæniatus ..... 70
thayeri ..... 70
Geophidium ..... 595
Geothlypis bairdi ..... 527
caninucha icterotis ..... 528
poliocephala ..... 526
Geotria chilensis ..... 24
Gerres argenteus ..... 86
californiensis ..... 165
gracilis ..... 127, 128, 159
lineatus ..... 128, 159
Gerridæ ..... 113
Gillellus ornatus ..... 338
Gillichthys guaymasiæ ..... 126, 161
mirabilis ..... 127, 162

Page.

Gillichthys cauda ..... 126, 127, 161
Girardinichthys ..... 18
Girardinus caucanus ..... 65
caudimaculatus ..... 65
decemmaculatus ..... 65
guppii ..... 65
iheringii ..... 65
januarius ..... 65
reticulatus ..... 65
Girella nigricans ..... 127, 154
Glandina decussata ..... 95
Glanidium albescens ..... 34
Glareola orientalis ..... 490
Glaucionetta clangula americana ..... 421
islandica ..... 421
Glauconia ..... 501, 589
dulcis ..... 590
Glycera dibranchiata ..... 288
Glyceridæ ..... 288
Glyphis alta ..... 334
Glyphisodon saxatilis ..... 127, 128, 160
Glyptocephalus ..... 110
Gnathanacanthidæ ..... 704
Gnathanacanthus ..... 701, 702, 703, 704
goetzii ..... 701, 703
Gnathypops scops ..... 126, 162
Gobiidæ ..... 4, 71, 113, 702
Gobioides broussoneti ..... 72
peruanus ..... 72
Gobiomorus dormitor ..... 71
maculatus ..... 71
Gobiosoma bosci ..... 86
crescentalis ..... **557**
histrio ..... 122, 127, 162
Gobius badius ..... 72
chiquita ..... 126, 161
longicaudus ..... 126, 161
microdon ..... **554**
oceanicus ..... 115
sagittula ..... 127, 161
soporator ..... 72, 115, 165
townsendi ..... 162
Grallaria dives ..... 343, 534
guatemalensis ..... 470
intermedia ..... 343, 534
lizanoi ..... **342**
perspicillata ..... 342, 534
princeps ..... 470
Grus canadensis ..... 425
americana ..... 425
Guavina brasiliensis ..... 71
guavina ..... 71
Gyalopium ..... 603
canum ..... 603
publium ..... 603
Gymnelis ..... 115
Gymnocichla chiroleuca ..... 469
Gymnodontes ..... 706, 717, 718
Gymnodontidæ ..... 717
Gymnonoti ..... 3, 7, 10, 11, 61
Gymnothorax concolor ..... 117
funebris ..... 124, 125, 127, 128, 134, 135
meleagris ..... 117
moringa ..... 117
undulatus ..... 117

Page.

Gymnotidæ ..... 6, 7

H.

Hæmulidæ ..... 113
Hæmulon flaviguttatum ..... 152
maculicauda ..... 152
schranki ..... 153
sexfasciatum ..... 153
steindachneri ..... 124
Halcyon coromanda ..... 495
pileata ..... 495
Haldea striatula ..... 676
Haliæetus leucocephalus ..... 434
Halibæna desolata ..... 490
Haplistia ..... 460
Haplomi ..... 3
Haplosyllis hamata ..... 281
Harengula macrophthalma ..... 112
Harmothoe aculeata ..... 278
Harpe ..... 111
diplotænia ..... 127, 159, 160
pectoralis ..... 159, 160
Harttia ..... 17
loricariformis ..... 40
Hecatera strigicollis ..... 274
Helicina orbiculata ..... 104
Helicops ..... 666
Heliothid ..... 198
Helix alternata ..... 96
aspersa ..... 96
coloradoensis ..... 97
cumberlandiana ..... 96
hemphilli ..... 96
humboldtiana ..... 96
magdalenensis ..... 97
pomatia ..... 96
striatella cronkhitei ..... 95
strigosa ..... 96
texasiana ..... 96
Helminthaphila celata ..... 444
Heloderma ..... 717
Helodermatidæ ..... 717
Helogenes ..... 16
marmoratus ..... 35
Hemiancistrus ..... 14
aspidolepsis ..... 41
brachyurus ..... 41
guacharote ..... 41
heteracanthus ..... 41
histrix ..... 41
itacua ..... 41
fordii ..... 41
medians ..... 41
megacephalus ..... 41
mystacinus ..... 41
oligospilus ..... 41
pictus ..... 41
scaphirhynchus ..... 41
serratus ..... 41
spinosus ..... 41
trinitatis ..... 41
vittatus ..... 41
Hemibranchii ..... 3
Hemiconiatus ..... 713, 714
Hemidoras ..... 15, 18, 33
accipenserinus ..... 33

| | Page. |
|---|---|
| Hemidoras affinis | 33 |
| brevis | 33 |
| carinatus | 33 |
| fimbriatus | 33 |
| humeralis | 33 |
| lipophthalmus | 33 |
| morei | 33 |
| nattereri | 33 |
| orestes | 33 |
| punctatus | 33 |
| stenopeltis | 33 |
| stübelii | 33 |
| Hemigymnus melapterus | 404 |
| Hemiodontichthys | 15 |
| acipenserinus | 38 |
| Hemiodus | 14 |
| amazonum | 49 |
| gracilis | 49 |
| immaculatus | 49 |
| kappleri | 49 |
| longiceps | 49 |
| microcephalus | 49 |
| microlepis | 49 |
| notatus | 49 |
| semitæniatus | 49 |
| unimaculatus | 14, 49 |
| Hemipsilichthys | 17 |
| gobio | 42 |
| Hemiramphus rosæ | 127, 135 |
| plebi | 92 |
| roberti | 92 |
| unifasciatus | 127, 128, 135 |
| Hemisorubim platyrhynchos | 31 |
| Henicorhina leucophrys | 518, 519 |
| leucosticta | 518 |
| prosthelenca | 518 |
| Henochilus | 17 |
| wheatlandi | 54 |
| Heptapterus mustelinus | 29 |
| Hermellidæ | 297 |
| Hermosilla azurea | 126, 156 |
| Herpelodryas margaritiferus | 504 |
| Hesionidæ | 281 |
| Hesperomys affinis | **195** |
| californicus | 195 |
| laticeps | 194 |
| leucopus | 195 |
| melanophrys | 194 |
| mexicanus | 194 |
| Heterodon | 642 |
| atmodes | 643 |
| nasicus | 644 |
| kennerlyi | 644 |
| nasicus | 645 |
| platyrhinus | 643 |
| simus | 643 |
| kennerlyi | 644 |
| Heterodonax bimaculatus | 313 |
| Hiatula | 111, 695 |
| onitis | 86, 695 |
| Hierophis constrictor | 623 |
| Himantodes | 677 |
| cencoa | 677 |
| gemmistratus | 677 |
| leucomelas | 677 |
| Himantodes tennissimus | 677 |
| Hiodontidæ | 2, 3 |
| Hippocampus ingens | 127, 135 |
| Hippoglossinæ | 110 |
| Hippoglossoides | 110 |
| Hippoglossus | 110 |
| Hipponyx antiquatus | 328 |
| barbatus | 328 |
| Hisonotus | 17 |
| Hisonotus notatus | 40 |
| Histrionicus histrionicus | 421 |
| Holonema | 456 |
| rugosa | 457 |
| Holospira arizonensis | 100 |
| roemeri | 100 |
| Holoxenus | 701, 704 |
| cutaneus | 701, 702, 703 |
| güntheri | 702, 703 |
| Homalocranium deppei | 597 |
| Hoplopagrus güntheri | 127, 145 |
| Hoplosternum | 13, 18 |
| littorale | 12, 44 |
| melampterum | 44 |
| thoracatum | 44 |
| Hybodus major | 448 |
| regularis | **448**, 463 |
| Hydractinia | 292 |
| Hydrocyoninæ | 6, 8, 11 |
| Hydroides | 299 |
| dianthus | 299, 301 |
| Hydrolycus | 15 |
| copei | 59 |
| pectoralis | 59 |
| scomberoides | 59 |
| Hylidæ | 168 |
| Hylomanes momotula | 471 |
| Hylophilus ochraceiceps | 529 |
| Hypophthalmidæ | 3, 6, 7 |
| Hypophthalmus | 15 |
| edentatus | 35 |
| Hypoptopoma | 15 |
| carinatum | 40 |
| gulare | 40 |
| thoracatum | 40 |
| Hypsiglena | 617 |
| ochrorhyncha | 617 |
| Hypsoblennius | 163 |
| gilberti | 163 |
| hentzi | 163 |
| punctatus | 85 |
| striatus | 163 |
| Hypsopsetta guttulata | 110 |

I.

| | |
|---|---|
| Ianthina fragilis | 322 |
| striatula | 322 |
| Ichthyoborinæ | 6 |
| Ichthyodorulites | 448 |
| Ictalurus | 18, 113 |
| albidus | 9 |
| dugesi | 5 |
| meridionalis | 5 |
| punctatus | 5 |
| Ignanodectes | 16 |
| tenuis | 52 |

| | Page. |
|---|---|
| Ilyanassa | 292 |
| Ilyophidæ | 351 |
| Ilyophis | **351** |
| brunneus | **352** |
| Infundibulum radians | 328 |
| Isesthes striatus | 128 |
| Isospondyli | 3, 112, 113 |
| J. | |
| Jenynsia lineata | 65 |
| Julus | 111 |
| Junco hyemalis | 443 |
| L. | |
| Labrichthyiformes | 395 |
| Labrichthyinæ | 397 |
| Labrichthys | 395 |
| bicolor | 404 |
| celidota | 396 |
| cyanotænia | 396, 397, 398, 399, 400 |
| laticlavius | 403 |
| luculenta | 396 |
| richardsonii | 402 |
| rubignosa | 396 |
| tetrica | 396 |
| Labridæ | 109, 111, 114 |
| Labroides | 399 |
| Labroids | 111 |
| Labrosomus | 115 |
| xanti | 127, 161 |
| Labrus | 111, 391, 400 |
| hiatula | 695 |
| pœciloptera | 399 |
| rubiginosus | 395 |
| Lachnolaimus | 111 |
| Læmolyta | 16 |
| orinocensis | 50 |
| proximus | 50 |
| tæniata | 50 |
| varius | 50 |
| nitens | 50 |
| Lagocephalus | 698, 706, 707, 708, 713 |
| lævigatus | 719 |
| lunaris | 719 |
| Lagodon rhomboides | 90 |
| Lagopus lagopus | 430 |
| rupestris | 431 |
| Lampornis sp | 169 |
| Lampris | 117 |
| Lampropeltis annulata | 503 |
| gentilis | 503 |
| multistrata | 502 |
| pyrrhomelas | 503 |
| rhombomaculatus | 503 |
| Lanius borealis | 444 |
| sphenocercus | 497 |
| fasciatus | 88 |
| Larus argentatus smithsonianus | 418 |
| brachyrhynchus | 418 |
| californicus | 418 |
| franklinii | 418 |
| glaucus | 417 |
| leucopterus | 418 |
| philadelphia | 418 |
| Lateolabrax | 111 |
| Latirus castaneus | 316 |
| ceratus | 316 |
| tuberculatus | 316 |
| Lebiasina | 15 |
| bimaculata | 45 |
| Leiodon | 706, 710, 711 |
| Leiosomus | 706, 708, 710, 711 |
| marmoratus | 710 |
| Lepidametria | 279 |
| commensalis | 279 |
| Lepidonotus | 278, 300 |
| sublevis | 278 |
| variabilis | 278 |
| Lepidopus | 117 |
| Lepidorhombus whiff-jagonis | 110 |
| Lepidosiren | 8, 15 |
| paradoxa | 7, 25 |
| Lepidosirenidæ | 5, 8 |
| Lepidosteidæ | 2 |
| Lepidosteus | 5, 18 |
| Lepidotrigla | 115 |
| Lepomis | 116 |
| Leporellus | 17 |
| nattereri | 50 |
| vittatus | 50 |
| Leporinus | 14 |
| affinis | 51 |
| agassizii | 51 |
| bahiensis | 51 |
| bimaculatus | 51 |
| brachyurus | 74 |
| conirostris | 51 |
| copelandi | 51 |
| eques | 51 |
| fasciatus | 51 |
| frederici | 51 |
| holostictus | 51 |
| hypselonotus | 51 |
| leschenaultii | 51 |
| macrolepidotus | 51 |
| maculatus | 51 |
| margaritaceus | 51 |
| megalepis | 51 |
| melanopleura | 51 |
| mormyrus | 51 |
| mülleri | 51 |
| multifasciatus | 51 |
| nigrotæniatus | 51 |
| obtusidens | 51 |
| pachyurus | 51 |
| reinhardtii | 51 |
| striatus | 51 |
| tæniatus | 51 |
| trifasciatus | 51 |
| Lepræa | 298 |
| rubea | 298 |
| Leptagoniates steindachneri | 57 |
| Leptes | 700 |
| Leptocephalus conger | 350 |
| Leptodeira septentrionalis | 505 |
| Leptodira annulata | 677 |
| mystacina | 678 |
| nigrofasciata | 678 |
| pacifica | 678 |
| personata | 677 |

Page.

Leptodira rhombifera ..... 677
Leptotyphlopidæ ..... 501
Leptotyphlops ..... 501
albifrons ..... 501
dulcis ..... 501, 502
Leucozonia cingulata ..... 316
Lichanura ..... 511, 500
myriolepis ..... 511, 512, 513, 515
orcutti ..... 513, 514, 515, **592**
roseofusca ..... 511, 512, 513, 514, 515, **591**
simplex ..... 512, 513, 515
trivirgata ..... 512, 514, 515, **591, 592**
Limicola platyrhincha ..... 492
Limnæa adelinæ ..... 101, 102
ampla ..... 101
caperata ..... 101
columella ..... 101
lanceata ..... 101
lepida ..... 101, 102
nuttalliana ..... 101, 103
palustris ..... 100, 101
stagnalis ..... 100
sumassi ..... 101
Limnæidæ ..... 101
Limopsis vaginatus ..... **190**
Limosa hæmastica ..... 428
Liodon ..... 711
Liodytes ..... 666
allenii ..... 667
Lioheterodon ..... 643
Liopeltis ..... 620
calamaria ..... 620
major ..... 620
tricolor ..... 620
vernalis ..... 620
Liosoma ..... 711
Liosomus ..... 711
Liostomus xanthurus ..... 89
Liparididæ ..... 115
Litorina conspersa ..... 327
peruviana ..... 327
aria ..... 327
zebra ..... 327
Lobotes surinamensis ..... 128, 124
Lodia ..... 601
tenuis ..... 602
Loimia ..... 298, 300
Loimia turgida ..... **298**, 300
Lophiidæ ..... 113
Lophiomus setigerus ..... 114
Lophius piscatorius ..... 114
Lophogobius cyprinoides ..... 115
Lophotriccus squamicristatus minor ..... **337**
zeledoni ..... **337**
Loricaria ..... 13, 14, 18
acuta ..... 38, 39
anus ..... 39
bransfordi ..... 38
brevirostris ..... 39
brunnea ..... 39
cadeæ ..... 38
caracasensis ..... 38
cataphracta ..... 39
cirrhosa ..... 39
depressa ..... 38
filamentosa ..... 39

Page.

Loricaria konopickyi ..... 39
lævinscula ..... 39
lámina ..... 39
lanceolata ..... 39
lata ..... 39
lima ..... 39
macrodon ..... 39
macromystax ..... 29
maculata ..... 39
magdalenæ ..... 39
nudiventris ..... 39
panamensis ..... 38
phoxocephala ..... 39
platycephala ..... 39
platystoma ..... 39
platyura ..... 38
rostrata ..... 38
spixii ..... 39
stübelii ..... 39
teffeana ..... 29
typus ..... 39
uracantha ..... 39
variegata ..... 39
vetula ..... 39
Loricariidæ ..... 3, 7, 10, 38
Loricarinæ ..... 38
Lota lota ..... 116
Loxia curvirostra minor ..... 440
leucoptera ..... 440
Lucania parva ..... 92
Lucapinella alta ..... 334
callomarginata ..... 334
inæqualis ..... 334
Luciocharax ..... 16
insculptus ..... 59
Luciopimelodus pati ..... 27
platanus ..... 27
Lumbriconereis opalina ..... 288
Lumpenus ..... 115
Lutjanus argentiventris ..... 128, 146
caxis ..... 91
colorado ..... 128, 147
guttatus ..... 128, 147
novemfasciatus ..... 127, 146
Lütkenia insignis ..... 54
Lycengraulis batesii ..... 63
Lycodes ..... 115
diapterus ..... **564**
Lycodon lyrophanes ..... 679
Lygosoma kilimensis ..... **405**
Lymbranchus ..... 9
Lyopsetta ..... 110
Lysopteri ..... 460
Lystrophis ..... 643
Lytorhynchus ..... 619
mexicanus ..... 619


M.


Macoma secta ..... 184
Macrodon ..... 13, 14
malabaricus ..... 45
microlepis ..... 45
Macropetalichthys ..... 449, 454, 455
rapheidolabis ..... 449, 455, 456, 463
sullivantii ..... 456, 463
Macrorhamphus griseus ..... 426

| | Page. |
|---|---|
| Macrorhamphus scolopaceus | 426 |
| Macruridæ | 116 |
| Macrurus pectoralis | **563** |
| Mactra angulata | 313 |
| velata | 313 |
| Magelona | 300 |
| Maldane | 294 |
| elongata | 294 |
| Maldanidæ | 294, 300 |
| Malcaringeus | 234 |
| Malthe | 113 |
| Mamestra | 197–274 |
| acutipennis | 275 |
| adjuncta | 237 |
| alboguttata | 260 |
| anguina | 266 |
| assimilis | 233 |
| associans | 272 |
| atlantica | 220 |
| beanii | 244 |
| brachiolum | 242 |
| canadensis | 222 |
| capsularis | 217 |
| chartaria | 241 |
| cinnabarina | 269 |
| circumcincta | **253** |
| condita | 270 |
| congermana | 229 |
| cristifera | 233 |
| crotchii | 213 |
| cuneata | 261 |
| defessa | 240 |
| desperata | **221** |
| determinata | **209** |
| detracta | 211 |
| dimmocki | 269 |
| discalis | 203 |
| distincta | 212 |
| ectypa | 249 |
| egens | 251 |
| expulsa | 273 |
| farnhami | 216 |
| ferrealis | 269 |
| glaciata | 239 |
| gnata | 212 |
| goodelli | 247 |
| grandis | 224 |
| imbrifera | 205 |
| impolita | 270 |
| incurva | 258 |
| innexa | 263 |
| insolens | 207 |
| insulsa | 273 |
| invalida | **225** |
| latex | 235 |
| laudabilis | 259 |
| legitima | 245 |
| lepidula | 208 |
| leucogramma | 208 |
| lilacina | 245 |
| liquida | 217 |
| longiclava | **265** |
| lorea | 262 |
| lustralis | 210 |
| marinitincta | 259 |

| | Page. |
|---|---|
| Mamestra meditata | 210 |
| minorata | 239 |
| nevadæ | 223 |
| nimbosa | 204 |
| noverca | 246 |
| oblivïosa | 271 |
| obscura | 249 |
| olivacea | 254 |
| orbiculata | **268** |
| passa | 236 |
| pensilis | 268 |
| picta | 231 |
| prodeniformis | 219 |
| punctigera | 273 |
| purpurisata | 206 |
| quadrannulata | 262 |
| quadrilineata quadrata | **248** |
| rectilinea | 255 |
| renigera | 250 |
| repentina | 242 |
| revision of species of | 197 |
| rogenhoferi | 204 |
| rosea | 229 |
| rugosa | 246 |
| septentrionalis | 272 |
| spiculosa | 252 |
| subjuncta | 223 |
| sutrina | 260 |
| trifolii | 226 |
| u-album | 231 |
| u-scripta | 228 |
| van-media | 255 |
| variolata | 238 |
| vetustra | 274 |
| vicina | 267 |
| vindemialis | 230 |
| vittula | 218, 268 |
| Mamestra, list of species of | 274 |
| Manubius | 105 |
| Margaritana margaritifera | 105 |
| Margarornis brunnescens | 339 |
| rubiginosa | 339 |
| squamigera | 339 |
| stellata | 339 |
| Marginella curta | 316 |
| Marphysa | 287 |
| leidyi | 287 |
| sanguinea | 287 |
| Megalichthys ciceronius | 457 |
| hibbertii | 457 |
| nitidus | 457, 463 |
| Megalops | 702 |
| cyprinoides | 112 |
| thrissoides | 63 |
| Melanerpes chrysanchen | 537 |
| Melanogrammus æglifinus | 116 |
| Mellisuga minima | 169 |
| Melongena purpuroides | 323 |
| Menidia clara | 126, **136** |
| notata | 92 |
| sardina | 126, 136 |
| Menippe | 356 |
| Menticirrus alburnus | 89 |
| nebulosus | 89 |
| Merganser americanus | 419 |

| | Page. |
|---|---|
| **Merganser serrator** | 419 |
| **Merlangus merlangus** | 116 |
| **Merluccius merluccius** | 116 |
| **Merula migratoria** | 445 |
| **Mesonauta** | 19 |
| **Metynnis** | 16 |
| luna | 61 |
| **Microlepidgaster perforatus** | 40 |
| **Micropalama himantopus** | 436 |
| **Micropogon ectenes** | 128, 159 |
| undulatus | 89 |
| **Micropterus** | 116 |
| **Mimus gilvus** | 473 |
| **Mitraria** | 301 |
| **Mitularia cepacea** | 327 |
| **Miuroglanis** | 16 |
| platycephalus | 37 |
| **Modiola capax** | 309 |
| cuneiformis | 309 |
| **Modulus disculus** | 326 |
| **Mola** | 113 |
| **Molinia frielei** | **186** |
| **Mollienesia** | 18 |
| **Moloidea** | 718 |
| **Molva molva** | 116 |
| **Monacanthus** | 113 |
| hispidus | 84 |
| **Monoceros brevidentatum** | 322 |
| tuberculatum | 322 |
| **Monocirrhus** | 16 |
| polyacanthus | 66 |
| **Monolene sessilicauda** | 110 |
| **Monotretus** | 710, 711 |
| calcutia | 710 |
| **Morone americana** | 111 |
| **Mugil albula** | 92 |
| cephalus | 127, 128, 136 |
| curema | 92, 127, 128, 136 |
| platanus | 66 |
| setosus | **349** |
| **Mugilidæ** | 3, 7, 8, 12, 113 |
| **Mullidæ** | 113 |
| **Munia atricapilla** | 498 |
| **Muræna helena** | 117 |
| **Murænesocidæ** | 348 |
| **Murænesox** | 348 |
| cinereus | 117 |
| **Murænoides** | 115 |
| **Murex buxea** | 319 |
| digitatus | 319 |
| lugubris | 319 |
| radix | 319 |
| regius | 319 |
| varicosus | 319 |
| vittatus | 319 |
| **Mycteroperca** | 143 |
| jordani | 126, 143 |
| pardalis | **351** |
| **Myctophum regale** | **544** |
| **Myiobius erythrurus** | 471 |
| **Myiodioctes pusillus** | 438 |
| **Mylesinus** | 15 |
| **Myselinus schomburgkii** | 59 |
| **Mylotes** | 14 |
| acanthogaster | 60 |

| | Page. |
|---|---|
| **Mylotes albiscopus** | 61 |
| altipinnis | 61 |
| asterias | 60 |
| bidens | 60, 61 |
| brachypoma | 61 |
| brachypomus | 60 |
| discoideus | 61 |
| duriventris | 61 |
| edulis | 60 |
| ellipticus | 61 |
| herniarius | 61 |
| hypsauchen | 61 |
| knerii | 61 |
| lippincottianus | 61 |
| lobatus | 60 |
| luna | 60 |
| macropomus | 60, 61 |
| maculatus | 61 |
| micans | 61 |
| nigripinnis | 61 |
| oculus | 61 |
| oligocanthus | 61 |
| orbignyanus | 60 |
| parma | 60 |
| rhomboidalis | 60 |
| rubripinnis | 60 |
| schomburgkii | 60 |
| setiger | 61 |
| torquatus | 60 |
| trilobatus | 61 |
| unilobatus | 60 |
| **Myrmeciza immaculata** | 345 |
| intermedia | **345** |
| occidentalis | 345 |
| stictoptera | 532 |
| **Myrophis vafer** | 165 |
| **Mythimna** | 231 |
| **Mytilus angustanus** | 309 |
| cuneiformis | 309 |
| ungulatus | 309 |

N.

| | |
|---|---|
| **Nannoglanis** | 16 |
| fasciatus | 29 |
| **Nannostomus** | 15 |
| anamolus | 49 |
| beckfordi | 49 |
| eques | 49 |
| trifasciatus | 49 |
| unifasciatus | 49 |
| **Narcine brasiliensis** | 24 |
| **Nassa californica** | 177 |
| complanata | 317 |
| dentifera | 318 |
| fossata | 177 |
| luteostoma | 318 |
| perpinguis | 177 |
| versicolor | 317 |
| **Natica maroccana** | 329 |
| otis | 329 |
| uber | 328 |
| unifasciata | 329 |
| **Natricinæ** | 645, 675 |
| **Natrix** | 667 |
| anoscopus | 673 |

Page.

Natrix bisecta....667, 668, 670
clarkii....669
compressicauda....669
bivittata....669
compressicauda....669
compsolæma....670
walkerii....669
cyclopium....673
fasciata....670
erythrogaster....673
fasciata....671
pleuralis....672
sipedon....671
transversa....672
grahamii....668
leberis....668
rhombifera....673
rigida....668
taxispilota....674
usta....668
valida....670
celæno....670
valida....670
Nauclerus....716
Naucrates....716
Nematistius pectoralis....127, 140
Nematogenys....13
inermis....36
Nematognathi....3, 6, 9, 10
Nemichthys....118
Nemuroglanis....16
lanceolatus....30
Neoatherina....401
Neoblennius....401
Neogunnellus....401
Neolethrinus....401
Neomesoprion....401
Neoniphon....401
Neoodax....401
Neoplecostomus granosus....40
microps....40
Neoplotosus....401
Neorhombus....401
Neosillago....401
Neotroplus....18
Nephthydidæ....280
Nephthys....280
bucera....280, 301
picta....281
Neptunea fusiformis....323
Nereidæ....284
Nereis....284
alocris....284
cuprea....285
irritabilis....284
limbata....284
megalops....284
pelagica....284
Nerinæ....291, 300
agilis....291
Nerita Bernhardi....332
scabricosta....332
Neritina guayaquilensis....332
intermedia....332
Nettastoma....118

Page.

Nevadæ....215, 222, 275
Nimbosa....199, 201, 204, 206, 274
Nitidella cribraria....318
Noctua....226
Noctuidæ....198
Notomastus....293
latericius....293
Notothenioids....305
Noturus....12
Numenius borealis....429
hudsonicus....429
Nychia....279
cirrosa....279
Nyctala tengmalmi richardsoni....437
Nyctea nyctea....429, 437

O.

Ocinebra erinaceoides....319
Odontini....717
Odontostilbe....15
fugitiva....54
pulcher....54
Odopsia....718
Ogmius....603
Oidemia americana....422
deglandi....422, 423
perspicillata....423
Oligoplites altus....128, 140
saurus....141
Oligosarcus argenteus....58
Oliva kaleontina....315
peruviana....315
Olivella columellaris....315
semistriata....315
tergina....316
Olor buccinator....425
columbianus....425
Omphalius aureotinctus....332
panamensis....331
viridulus....331
Oniscia tuberculosa....324
Oonidus....718
Openeus dentatus....127
grandisquamis....156
Ophelia simplex....301
Opheliidæ....289
Ophelina....289, 300
agilis....289
Ophibolus....607
californiæ....614
calligaster....610
doliatus....608
annulatus....609
clericus....610
coccineus....609
collaris....609
conjunctus....608, 609, 610, 611
doliatus....609
gentilis....609
parallelus....609
polyzonus....609
syspilus....609
triangulus....610
getulus....611
boylii....613

| | Page. |
|---|---|
| Ophibolus getulus californiæ | 614 |
| getulus | 613 |
| niger | 613 |
| sayi | 612 |
| splendidus | 613 |
| multistratus | 611 |
| pyrrhomelas | 610 |
| pyromelanus | 610 |
| rhombomaculatus | 610 |
| Ophidium marginatum | 85 |
| Ophisoma | 349 |
| anago | 350 |
| balearicum | 349 |
| compressum | 349 |
| macrurum | 347 |
| macrurum | **351** |
| mellissii | 349 |
| mystax | 350 |
| nitens | 350 |
| prorigerum | **350** |
| Ophisuridæ | 117 |
| Opisthognathus ommata | 126, 162 |
| Opisthonema | 93 |
| libertatis | 127, 134 |
| Orbidia | 718 |
| Orbidus | 718 |
| Oreothlypis gutturalis | 473, 524 |
| Orestias | 8, 12, 17 |
| agassizii | 65 |
| cuvieri | 65 |
| jussiei | 65 |
| pentlandii | 65 |
| Ornithion imberbe | 535 |
| cantharinus | 165 |
| chalceus | 128, 149 |
| chrysopterus | 90 |
| inornatus | 127, 148 |
| Oryzomys palustris | 193 |
| talamancæ | **193** |
| Osceola | 606 |
| elapsoidea | 606 |
| Ossicula anditus | 10 |
| Ostariophysæ | 10 |
| Osteoglossidæ | 3, 5, 11, 63 |
| Osteoglossum | 6, 15 |
| bicirrhosum | 63 |
| Ostracion | 113, 114 |
| tetraodon | 714 |
| Ostrea (?) iridescens | 308 |
| Othos | 401 |
| Otocinclus affinis | 30 |
| vestitus | 40 |
| Otocoris alpestris | 438 |
| Oxydoras | 14 |
| amazonum | 33 |
| d'orbignyi | 33 |
| knerii | 33 |
| niger | 33 |
| Oxyropsis | 16 |
| wrightii | 40 |
| Oxius (?) subverrucosus | 380 |

P.

| | |
|---|---|
| Pachypops adspersus | 67 |
| furcræus | 67 |
| Pachypops trifilis | 67 |
| Pachyrhamphus albinucha | 479 |
| cinereiventris | 343 |
| cinereus | 479 |
| ornatus | **338** |
| polychroptera | 343 |
| rufodorsalis | 344 |
| versicolor | 535 |
| Pachyurus | 17 |
| bonariensis | 67 |
| francisci | 67 |
| schomburgkii | 67 |
| squamipinnis | 67 |
| Pædophylax | 231 |
| longiceps | 231 |
| Pæcilurichthys | 52 |
| Panaque | 15 |
| cochliodon | 42 |
| dentex | 42 |
| nigrolineatus | 42 |
| Pandion haliætus carolinensis | 436 |
| Panopeus | 355, 356 |
| abbreviatus | 381 |
| affinis | 377 |
| africanus | 381 |
| americanus | 380 |
| angustifrons | **373** |
| areolatus | **361** |
| bermudensis | **376** |
| bradleyi | 381 |
| chilensis | 362, 379 |
| convexus | 383 |
| crassus | 383 |
| crenatus | 377 |
| depressus | 308 |
| dissimilis | **366** |
| harrisii | 378 |
| harttii | 372 |
| hemphillii | **374** |
| herbstii | 358 |
| granulosus | 383 |
| obesus | 358 |
| serratus | 371 |
| lacustris | 358 |
| lævis | 380 |
| latifrons | 384 |
| limosus | 379 |
| occidentalis | 360 |
| otagoensis | 384 |
| ovatus | **368** |
| packardii | 365 |
| parvulus | 369 |
| planissimus | 370 |
| planus | 369 |
| politus | 369 |
| purpureus | 382 |
| rugosus | 383 |
| sayi | 363 |
| serratus | 371 |
| subverrucosus | 380 |
| texanus | 363 |
| transversus | 367, 377 |
| validus | 362, 380, 382 |
| wurdemannii | 372 |

| | Page. |
|---|---|
| Panopeus xanthiformis | 382 |
| Paradiplomystes | 10 |
| coruscans | 26 |
| Paragoniates alburnus | 57 |
| microlepis | 57 |
| mülleri | 57 |
| Paragoniatus | 17 |
| Parahybæ | 12 |
| Paralabrax | 143 |
| Paralichthys | 110 |
| adspersus | 127, 164 |
| dentatus | 85 |
| Paraliparis cephalus | **561** |
| mento | **562** |
| Parancistrus | 15 |
| aurantiacus | 42 |
| nigricans | 421 |
| punctatissimus | 42 |
| Parapholas acuminata | 314 |
| Parartrygon strongylopterus | 24 |
| Pareiodon | 15 |
| microps | 37 |
| pusillus | 37 |
| Pargo chibato | 147 |
| raisero | 155, 147, 148 |
| Pariolius armillatus | 36 |
| Parodon | 14 |
| affinis | 49 |
| buckleyi | 49 |
| suborbitalis | 49 |
| Parotocinclus | 17 |
| maculicauda | 40 |
| Parus atricapillus septentrionalis | 445 |
| cinctus obtectus | 443 |
| hudsonicus | 445 |
| Pasidium occidentale | 106 |
| Passerella iliaca | 443 |
| Patæcus | 704 |
| Patella araucania | 329 |
| Pavoncella pugnax | 492 |
| Pecten dentata | 309 |
| purpuratus | 308 |
| subnodosus | 303 |
| tumbezensis | 308 |
| ventricosus | 308 |
| Pectenibranchiata | 104 |
| Pectinaria | 297 |
| gouldii | 297 |
| Pectunculus inæqualis | 310 |
| Pediculates | 113, 114 |
| Pediocætes phasianellus | 472 |
| Pelecypoda | 104 |
| Pellona altamazonica | 63 |
| flavipinnis | 63 |
| Percesoces | 3 |
| Percichthys | 8, 13, 111 |
| chilensis | 67 |
| lævis | 66 |
| melanops | 67 |
| trucha | 66 |
| Percidæ | 2, 3, 111, 116, 715 |
| Percilia | 8, 13 |
| gillissii | 67 |
| Percomorphi | 3, 4, 7 |
| Percopsidæ | 2, 3 |

| | Page. |
|---|---|
| Perisoicus canadensis | 439 |
| fumifrons | 439 |
| Petaloproctus | 295, 300 |
| socialis | **295** |
| Petricola carditoides | 190 |
| elliptica | 312 |
| solida | 312 |
| ventricosa | 312 |
| Petrochelidon lunifrons | 443 |
| Petromyzontidæ | 13 |
| Phæochroa roberti | 471 |
| Phæthon ætherenus | 493 |
| candidus | 493 |
| flavirostris | 493 |
| rubricauda | 492, 493 |
| Phalaropus lobatus | 425, 492 |
| Philydor virgatus | 534 |
| Phimothyra hexalepis | 620 |
| Pholas pacifica | 314 |
| truncata | 314 |
| Phractocephalus | 15 |
| hemiliopterus | 30 |
| Phyllodoce | 281 |
| fragilis | 281 |
| Phyllodocidæ | 281 |
| Phyllorhynchus | 617, 629 |
| brownii | 618 |
| decurtatus | 618 |
| Physa ampullacea | 103 |
| gyrina | 103 |
| heterostropha | 103 |
| osculans | 104 |
| Physogaster | 712 |
| Physogastroidei | 718 |
| Physopyxis | 16 |
| lyra | 32 |
| Piabuca | 15 |
| argentinus | 57 |
| spilurus | 57 |
| Piabucina | 15 |
| elongata | 52 |
| erythrinoides | 52 |
| panamensis | 52 |
| unitæniata | 52 |
| Picoides americanus | 438 |
| americanus alascensis | 438 |
| arcticus | 437 |
| hirsutus | 438 |
| Picolaptes compressus | 533 |
| gracilis | 475 |
| Pictilabrus | **403** |
| Picus canus jessensis | 495 |
| Pilumnus harrisii | 378 |
| Pimelepterus analogus | 154 |
| elegans | 154, 155 |
| Pimelodella | 13, 14, 18, 29 |
| brasiliensis | 29 |
| buckleyi | 29 |
| chagresi | 29 |
| cristatus | 29 |
| elongatus | 29 |
| gracilis | 29 |
| harttii | 29 |
| lateristriga | 29 |
| modestus | 29 |

Page.

Pimelodella pectinifer ..... 29
vittata ..... 29
wesselii ..... 29
Pimelodina ..... 10
flavipinnis ..... 27
nasus ..... 27
Pimelodinæ ..... 5, 6, 7, 9, 10
Pimelodus ..... 13, 18
albicans ..... 29
altipinnis ..... 30
clarias ..... 12, 29
cyanostigma ..... 29
eques ..... 29
fur ..... 30
grosskopfii ..... 29
labrosus ..... 29
ornatus ..... 29
pictus ..... 29
quadrimaculatus ..... 29
valenciennis ..... 29
westermanni ..... 29
Pinicola enucleator ..... 440
Pinirampus pirinampu ..... 27
Pinnixa ..... 290
Pipra leucocilla ..... 536
leucorrhoa ..... 536
mentalis ..... 536
velutina ..... 536
Piramutana ..... 15
piramuta ..... 30
Pirinampus agassizii ..... 30
Pityophis ..... 638
catenifer ..... 641
melanolencus ..... 640
sayi ..... 640
bellona ..... 641
sayi ..... 641
vertebralis ..... 642
wilkesii ..... 642
Pithys bicolor ..... 469
olivascens ..... **469**
leucaspis ..... 469
Plagioscion ..... 15
auratus ..... 67
squamosissimus ..... 67
surinamensis ..... 67
Planaxis planicostata ..... 326
Planorbis liebmani ..... 103
parvus ..... 103
trivolis ..... 102
tumens ..... 102
tumidus ..... 102, 103
Platichthys stellatus ..... 110
Platophrys leopardinus ..... 165
Platycephalidæ ..... 11
Platyglossus chrysotœnia ..... 398
ocellatus ..... 398
Platynematichthys ..... 15
araguayensis ..... 30
punctulatus ..... 30
Platypœcilus ..... 18
Platysparis affinis ..... 469
aglaiæ ..... 468, 469, 535
albiventris ..... 469
hypophæus ..... **467**, 469, 474

Page.

Platysparis aglaiæ insularis ..... 469
latirostris ..... 467, 468, 469, 474
obscurus ..... 469, **474**
homochrous ..... 469, 474
latirostris ..... 468, 469
Platysomidæ ..... 460
Platysomus circularis ..... 462
lacovianus ..... **462**, 463
palmaris ..... **460**, 463
Platystoma ..... 14, 18
lütkeni ..... 31
Platystomatichthys ..... 16
sturio ..... 31
Plecostomus ..... 13, 14
alatus ..... 41
annæ ..... 41
auroguttatus ..... 41
biseriatus ..... 41
brevicauda ..... 41
carinatus ..... 40
commersonii ..... 40
affinis ..... 40
scabriceps ..... 40
cordovæ ..... 41
emarginatus ..... 40
francisci ..... 41
johnii ..... 41
lima ..... 41
limosus ..... 40
lütkenii ..... 41
macrops ..... 41
pentherinus ..... 41
plecostomus ..... 40
robinii ..... 41
seminudus ..... 41
spinosissimus ..... 40
vaillanti ..... 41
vermicularis ..... 41
villarsi ..... 41
virescens ..... 41
wuchereri ..... 41
Plectognath fishes ..... 113
Plectognathi ..... 4
Plectrophenax nivalis ..... 144
Plethodectes ..... 16
erythrinus ..... 51
Pleurogadus ..... 303, 304
navaga ..... 116
Pleuronectidæ ..... 4, 7, 111, 115
Pleuronectinæ ..... 110
Podarke obscura ..... 281
Podopterygia ..... 459, 460
Pœcilia ..... 65
gillii ..... 65
punctata ..... 65
surinamensis ..... 65
unimaculata ..... 65
vivipara ..... 65
Pogonias chromis ..... 88
fasciatus ..... 88
Pollachius chalcogrammus ..... 116
virens ..... 116
Pollia buxea ..... 319
fusiformis ..... 323
Polycanthus ..... 709

| | Page. |
|---|---|
| Polycariidæ | 6 |
| Polycentridæ | 3, 6, 7, 11, 66 |
| Polycentrus | 16 |
| schomburgkii | 66 |
| tricolor | 66 |
| Polychæta | 277 |
| Polycirrus | 299 |
| eximius | 299 |
| Polydactylus approximans | 127, 137 |
| Polydora | 277, 291, 300 |
| cæca | 291 |
| commensalis | **291** |
| Polygordius | 301 |
| Polynemus approximans | 137 |
| Polynoidæ | 278 |
| Polyodontes | 280 |
| Polypterus | 112 |
| Pomacanthus zonipectus | 128, 160 |
| Pomacentridæ | 113, 116 |
| Pomacentrus leucorus | **554** |
| Pomadasis axillaris | 127, 151 |
| elongatus | 128, 150 |
| macracanthus | 128, 151 |
| axillaris | 151 |
| Pomatomus saltatrix | 91 |
| Pomulax undosus | 331 |
| Pomotis bono | 74 |
| Poocætes gramineus | 441 |
| Porcellana | 290 |
| Porichthys margaritatus | 127, 162 |
| Porogadus promelas | **546** |
| Potamorhina | 16, 46 |
| pristigaster | 46 |
| Potamorrhaphis | 15 |
| guianensis | 66 |
| Potamotrygon brachyurus | 25 |
| dorbignyi | 25 |
| dumerilii | 25 |
| hystrix | 25 |
| magdalenæ | 25 |
| motoro | 25 |
| reticulatus | 25 |
| Premnoplex | **339** |
| Priene oregonensis | 178 |
| Prilonotus | 708, 710 |
| rostratus | 710 |
| Prionospio | 300 |
| Prionotus | 115 |
| gymnostethus | **559** |
| strigatus | 86 |
| Priscofusus corpulentus | 179 |
| Pristipoma axillare | 151 |
| chalceum | 149 |
| humile | 67 |
| Pristipomidæ | 715 |
| Procellaria desolata | 490 |
| Proceræa cerulea | 282 |
| ornata | 283, 300 |
| rubropunctata | 283, 300 |
| tardigrada | 282 |
| Prochilodus | 14 |
| affinis | 48 |
| argenteus | 48 |
| asper | 48 |
| binotatus | 48 |

| | Page. |
|---|---|
| Prochilodus brama | 48 |
| brevis | 48 |
| cephalotes | 48 |
| dobulinus | 48 |
| hartii | 48 |
| humboldtii | 49 |
| humeralis | 48 |
| insignis | 48 |
| laticeps | 48 |
| lineatus | 48 |
| longirostris | 48 |
| magdalenæ | 48 |
| nigricans | 48 |
| oligolepis | 48 |
| ortonianus | 48 |
| rubrotæniatus | 48 |
| scrofa | 48 |
| tæniurus | 48 |
| vimboides | 48 |
| Promecocephalus | 712 |
| lævigatus | 719 |
| Promicrops guttatus | 128, 143 |
| itaiara | 143 |
| Protistius | 8, 12, 17 |
| semotilus | 66 |
| Protulides elegans | 299 |
| Psectrogaster amazonica | 46 |
| ciliata | 46 |
| rhomboides | 46 |
| Psednoblennius hypacanthus | 126, 164 |
| Psettinæ | 110 |
| Pseudancistrus barbatus | 42 |
| depressus | 42 |
| guttatus | 42 |
| setosus | 42 |
| wertheimeri | 42 |
| Pseudauchenipterus | 13 |
| affinis | 34 |
| flavescens | 34 |
| jequitinhonhæ | 34 |
| nodosus | 34 |
| Pseudobatrachus | 401 |
| Pseudochalceus | 15 |
| lineatus | 54 |
| Pseudojulis venustus | 126, 160 |
| Pseudolabri | 403, 404 |
| Pseudolabriformes | 395, 397 |
| Pseudolabrus | 395 |
| australis | 401 |
| biserialis | 402 |
| bleekeri | 402 |
| bostocki | 402 |
| bothryocosmus | 400 |
| celidotus | 400 |
| cinctus | 402 |
| coccineus rubiginosus | 403 |
| convexus | 402 |
| cruentatus | 402 |
| cuvieri | 402 |
| cyanogenys | 403 |
| dorsalis | 402 |
| dux | 402 |
| edelensis | 402 |
| elegans | 403 |
| ephippium | 401 |

| | Page. |
|---|---|
| Pseudolabrus fucicola | 401 |
| fuscipinnis | 402 |
| gayi | 400 |
| gracilis | 403 |
| güntheri | 401 |
| gymnogenis | 401 |
| inscriptus | 400 |
| isleanus | 402 |
| labiosus | 402 |
| lanzii | 402 |
| laticlavius | 400 |
| luculentus | 400, 401 |
| maculatus | 403 |
| melanurus | 402 |
| mortonii | 403 |
| nigromarginatus | 402 |
| nudigena | 403 |
| ocellatus | 402 |
| parila | 401 |
| psittaculus | 400 |
| punctulatus | 401 |
| rex | 402 |
| richardsonii | 401, 402 |
| roseipunctatus | 402 |
| ruber=L. rubra | 402 |
| rubicundus | 402 |
| rubiginosus | 396, 400 |
| sexlineatus | 402 |
| tetricus | 401 |
| tetricus fuscipinnis | 402 |
| tetricus ocellatus | 402 |
| tetricus tigripinnis | 402 |
| unicolor | 402 |
| vestitus | 402 |
| Pseudonchenipterus | 18 |
| Pseudopimelodus | 13, 18, 27 |
| acanthochira | 28 |
| alexandri | 27 |
| parahybæ | 27 |
| pulcher | 27 |
| raninus | 27 |
| zunigaro | 6, 28 |
| Pseudoplatystoma | 14, 31 |
| coruscans | 31 |
| fasciatum | 31 |
| brevifile | 31 |
| intermedium | 31 |
| nigricans | 31 |
| reticulatum | 31 |
| tigrinum | 31 |
| Pseudostegophilus nemurus | 37 |
| Pseudoxiphophorus | 18 |
| Psilonotus | 706, 708, 709, 710 |
| electricus | 709 |
| rostratus | 708, 709 |
| Pteragogus | 397 |
| Pterengraulis atherinoides | 63 |
| Pteroïs | 114 |
| Pterophyllum | 16 |
| scalare | 71 |
| Pteroplatea | 94 |
| maclura | 94 |
| Pterygoplichthys | 15 |
| etentaculatum | 42 |
| gibbiceps | 42 |

| | Page. |
|---|---|
| Pterygoplichthys jeancsianus | 42 |
| lituratus | 42 |
| multiradiatus | 42 |
| pardalis | 42 |
| punctatus | 42 |
| undecimalis | 42 |
| Ptilonorhynchus violaceus | 500 |
| Puffinus tennirostris | 490 |
| Puncturella major | 189 |
| Purpura biserialis | 320 |
| blainvillei | 320 |
| callaoënsis | 320 |
| carolensis | 320 |
| chocolata | 321 |
| columellaris | 321 |
| diadema | 320 |
| kiosquiformis | 321 |
| melo | 320 |
| patula | 321 |
| planospira | 321 |
| triangularis | 320 |
| undata | 320 |
| Pygididæ | 3, 6, 7 |
| Pygidium | 10, 14, 17, 18, 20 |
| amazonicum | 37 |
| areolatum | 36 |
| brasiliense | 36 |
| corduvense | 36 |
| dispar | 36 |
| punctulatum | 36 |
| fuscum | 36 |
| immaculatum | 37 |
| knerii | 36 |
| laticeps | 36 |
| macræi | 36 |
| maculatum | 36 |
| marmoratum | 36 |
| nigricans | 37 |
| nigromaculatum | 37 |
| oroyæ | 36 |
| palleum | 36 |
| pardus | 12, 37 |
| pœyanum | 36 |
| punctatissimum | 36 |
| rivulatum | 36 |
| taczanowskii | 37 |
| tænia | 36 |
| tenue | 36 |
| tigrinum | 36 |
| Pygocentrus | 14 |
| alatus | 60 |
| nattereri | 60 |
| niger | 59 |
| notatus | 60 |
| palometa | 59 |
| piraya | 59 |
| scapularis | 59 |
| Pygopodidæ | 717 |
| Pygopristis | 15 |
| denticulatus | 59 |
| serrulatus | 59 |
| Pyrrhulina | 15 |
| argyrops | 45 |
| brevis | 45 |
| filamentosa | 45 |

Page.

Pyrrhulina guttata ... 45
læta ... 45
maxima ... 45
melanostoma ... 45
nattereri ... 45
semifasciata ... 45

R.

Raia ... 94
lævis ... 94
trachura ... **539**
clathrata ... 175
cœlata ... 323
pulchra ... 175
Regulus calendula ... 445
Rena ... 590
humilis ... 501, 590
Rhabdosoma ... 595, 596
Rhadinæa ... 505, 624
imperialis ... 505
Rhamdella ... 17
eriarcha ... 28
exsudans ... 28
jenynsii ... 28
microcephala ... 28
minuta ... 28
notata ... 28
Rhamdia ... 13, 14, 18
argentinus ... 28
bathyurus ... 28
breviceps ... 28
cinerascens ... 28
dorsalis ... 28
foina ... 28
grunniens ... 28
hilarii ... 28
humilis ... 28
laukidi ... 28
longicauda ... 28
multiradiatus ... 28
obesa ... 28
pentlandi ... 28
poeyi ... 28
quelen ... 28
sapo ... 28
schomburgkii ... 28
sebæ ... 28
kneri ... 28
tenella ... 28
velifer ... 28
wagneri ... 28
Rhamphichthys ... 15
marmoratus ... 62
reinhardtii ... 62
rostratus ... 62
Rhamphocelus costaricensis ... 531
passerinis ... 531
Rhamphosternarchus ... 15
Rhincastes ... 9
Rhinechis ... 637
elegans ... 638
scalaris ... 638
Rhinelepis ... 13
agassizii ... 41
aspera ... 41

Page.

Rhinelepis parahybæ ... 41
Rhinobatus glaucostigma ... 127, 132
Rhinochilus ... 605
antonii ... 605, 606
lecontii ... 606
Rhinogobius flavus ... 72
taiasica ... 72
Rhinoptera ... 94
quadriloba ... 94
steindachneri ... 126, **130**
Rhipidistia ... 460
Rhipidopterygia ... 459, 460
Rhynchobolus americanus ... 289
Rhynchotus ... 707
Rhytiodus ... 16
argenteofuscus ... 50
microlepis ... 50
Rivulus elegans ... 64
micropus ... 64
ocellatus ... 64
poeyi ... 64
urophthalmus ... 64
Roccus chrysops ... 111
lineatus ... 111
Rœboides affinis ... 57
bicornis ... 57
bonariensis ... 57
dayi ... 57
guatemalensis ... 57
microlepis ... 57
myersii ... 57
xenodon ... 57
Rœstes ... 15
alatus ... 57
molossus ... 57

S.

Sabella microphthalma ... 299
Sabellaria vulgaris ... 297
Saccodon ... 15
craniocephalum ... 49
wagneri ... 49
Salarius ... 115
Salminus ... 17
affinis ... 58
brevidens ... 58
cuvieri ... 58
hilarii ... 58
orbignyanus ... 58
Salmo emarginatus ... 74
undulatus ... 74
Salmonidæ ... 3, 112, 116
Salvadora ... 618
bairdii ... 619, 620
decurtata ... 618
grahamiæ ... 619
mexicana ... 619, 620
Saraca ... 16
operc ularis ... 70
Sarda sarda ... 117
Sauromalus ... 409, 411
ater ... 410
hispidus ... **409**
Scalaris ... 708
Scaridæ ... 108

| | Page. |
|---|---|
| Scardafella inca | 471 |
| Scarus | 111 |
| Sceloporus delicatissimus | 485, 486 |
| gratiosus | 487 |
| marmoratus | 485, 486 |
| scalaris | 486, 487 |
| variabilis | 485, 486, 487, 488 |
| Schizopyga californica | 177 |
| Schlegelia wilsoni | 99 |
| Sciades | 15, 27 |
| marmoratus | 30 |
| pictus | 30 |
| Sciæna icistra | 159 |
| undecimalis | 141 |
| Sciænidæ | 4, 5, 7, 8, 113 |
| Sciænops ocellatus | 89 |
| Scissor macrocephalus | 54 |
| Scleromystax | 17 |
| barbatus | 43 |
| Sclerurus guatemalensis | 471 |
| mexicanus | 471 |
| Scolecophagus carolinus | 440 |
| Scoliodon longurio | 127, 130 |
| terræ-novæ | 94 |
| Scoloplos | 300 |
| bragilis | 293, 301 |
| robustus | 292, 301 |
| Scomber colias | 117, 127, 128, 137 |
| scombrus | 117 |
| Scomberomorus maculatus | 87, 117, 128, 137 |
| Scombridæ | 117, 716 |
| Scopelidæ | 112 |
| Scoptiaptex cinerea | 430 |
| Scorpæna | 114, 118 |
| plumieri | 128, 162 |
| sonoræ | 126, 162 |
| Scorpænidæ | 111, 114, 118, 703 |
| Scorpænoidei | 701, 702 |
| Scytalopus argentifrons | **475** |
| Sebastes | 110, 111, 114, 118 |
| Sebastichthys | 110, 114, 118 |
| Sebastodes | 110, 114 |
| Sebastoplus | 114 |
| Selasphorus platycercus | 169 |
| rufus | 169, 170 |
| Selene vomer | 87, 127, 128, 138 |
| Semele corrugata | 313 |
| proxima | 313 |
| Semicossyphus | 397 |
| Serranidæ | 8, 111, 113, 116, 715 |
| Serranus | * 143 |
| maculato-fasciatus | 127, 142 |
| Serrasalmo | 14 |
| scotopterus | 74 |
| Serrasalminæ | 6, 8, 11 |
| Serrasalmus æsopus | 60 |
| brandtii | 60 |
| caribe | 60 |
| elongatus | 60 |
| gibbus | 60 |
| gymnogenys | 60 |
| humeralis | 60 |
| immaculatus | 60 |
| iridopsis | 60 |
| iritans | 60 |
| Serrasalmus maculatus | 60 |
| marginatus | 60 |
| rhombeus | 60 |
| spilopleura | 60 |
| Seriola | 716 |
| Serpulorbis squamigera | 326 |
| Setophaga aurantiaca | 528 |
| Shells from Northwest America dredged by the *Albatross* | 186 |
| Shells of the west coast of South America | 307 |
| Siagonodon dugesii | 501 |
| Sibon | 676 |
| annulatum | 677 |
| septentrionale | 678 |
| yucatanense | 677 |
| biscutatum | 679 |
| frenatum | 677 |
| nigrofasciatum | 678 |
| pacificum | 678 |
| personatum | 677 |
| rhombiferum | 677 |
| septentrionale | 677, 678 |
| yucatanense | 677 |
| Sicyopterus salvini | 72 |
| Sidera castanea | 124, 134, 135 |
| Sigaretus concavus | 329 |
| Siluridæ | 3, 5, 6, 7, 9, 113, 116 |
| Silurinæ | 10 |
| Simenchelys | 352 |
| Siphonaria costata | 314 |
| Siphostoma arctum | 126, 135 |
| carinatum | **547** |
| fuscum | 84 |
| louisianæ | 84 |
| Sistrum ferrugineum | 317 |
| Sittasomus æquatorialis | 509 |
| amazonus | 507 |
| amazonus | 509 |
| chapadensis | **509** |
| erithacus | 507, 508 |
| griseus | 507 |
| griseus | 510 |
| olivaceus | 507 |
| sylvioides | 507 |
| sylvioides | 509 |
| stictolæmus | 507, 510 |
| pectinicaudus | 507 |
| Solecurtus coquimbensis | 313 |
| Solemya johnsoni | **189** |
| macrodactyla | 189 |
| Solen rudis | 313 |
| Solenosteira purpuroides | 323 |
| Solenotellina | 695 |
| Soletellina | 695 |
| Somateria spectabilis | 422 |
| v-nigra | 422 |
| Sonora semiannulata | 601 |
| Sornbim lima | 31 |
| Sornbimichthys | 15 |
| gigas | 31 |
| planiceps | 31 |
| spatula | 31 |
| Sparidæ | 4, 113, 715 |
| Sparisoma | 111 |
| Sparus brachysomus | 153 |

Page.

Spatula clypeata ..... 420
Spermophilus empetia..... 437
Sphærium dentatum..... 106
Sphæroides.....706, 707, 709
angusticeps ..... 709
Spheroides.....113, 705, 708, 718
maculatus..... 710, 719
politus .....127, 165, 719
Spheroides testudineus..... 719, 720
annulatus..... 165, 720
Spherosomes ..... 718
Sphyræna..... 83
argentea..... 127, 137
lucasana..... 137
Sphyrænidæ ..... 113
Sphyrna tudes .....127, 128, 131
zygæna .....83, 127, 128, 131
Spilopterus ..... 164
Spilotes ..... 636
corais..... 636
corais..... 637
couperii..... 637
melanurus ..... 637
conperii..... 637
erebennus ..... 637
pœcilostomus..... 636
Spionidæ..... 300
Spinus notatus..... 470
Spizella monticola..... 442
Spondylus princeps ..... 308
Squalus zygæna..... 131
Squamipinnes..... 715
Staurocephalus sociabilis ..... 288
Stegophiloides..... 16
Stegophilus..... 12, 14
insidiosus..... 37
intermedius..... 37
macrops..... 37
maculatus ..... 37
punctatus..... 37
reinhardti..... 37
Steindachneria..... 12, 17
amblyura..... 31
doceana..... 31
parahybæ ..... 31
Stellula calliope..... 109
Stenometopus..... 712
Stenophus..... 401
Stenostoma..... 501
dulce..... 501
rubellum..... 502, 590
Stenostomatidæ..... 501
Stenotomus chrysops ..... 90
Stercorarius pomarinus ..... 417
parasiticus..... 417
longicaudus..... 417
Sterna bergii..... 490
camtschatica..... 490
dougalli..... 489
hirundo ..... 419
sinensis..... 489
paradisea..... 419
Sternarchorhynchus curvirostris ..... 62
macrostoma ..... 62

Page.

Sternarchorhynchus mormyrus..... 62
müller ..... 62
oxyrhynchus..... 62
Sternarchus..... 14
albifrons ..... 61
balænops ..... 62
bonapartii ..... 62
brasiliensis..... 61
macrolepis..... 63
nattereri..... 61
sachsi..... 62
schotti..... 61
virescens..... 62
Sternopygidæ ..... 3, 6, 7, 11
Sternopygus..... 14
axillaris ..... 62
æquilabiatus..... 62
carapo..... 62
humboldti..... 62
obtusirostris..... 62
troschelii ..... 62
virescens ..... 62
Stethaprion..... 16
chryseum ..... 60
copei..... 60
erythrops ..... 60
Stevardia ..... 16
albipinnis ..... 46
riisei..... 46
scarlesii..... 46
veedonii..... 46
Sthenelais picta..... 279
Stilosoma..... 595
extenuatum..... 595
Stolephoridæ..... 3
Stolephorus brevirostris ..... 63
browni ..... 93
browni ..... 112
cultratus ..... **344**
enchrasicolus ..... 112
macrolepidotus .....63, 127, 134
mitchilli ..... 93
nattereri ..... 63
olidus ..... 63
opercularis ..... 127, 134
pœyi ..... 63
spinifer ..... 63
surinamensis..... 63
Stomiatidæ..... 112
Storeria..... 674
dekayi..... 675
occipitomaculata..... 675
tropica..... 674
Stromateus paru ..... 88
triacanthus ..... 83, 88
Strombella fragilis ..... **187**
melonis ..... **187**
middendorffii ..... **186**
norvegica ..... 186
Strombina lanceolata..... 318
Strombus gracilior ..... 325
granulatus..... 325
peruvianus ..... 325
Styptobasis ..... **447**

Page.

Styptobasis knightiana.....463, **447**, 448
Succinea avara..... 100
campestris..... 100
luteola..... 100
Surnia ulula caparoch..... 437
Syllidæ..... 300
Syllis spongicola..... 281, 300
Symbranchidæ..... 5, 9
Symbranchus..... 6
marmoratus..... 25
Symphodus..... 111
Sympholis..... 603
Symphurus fasciolaris..... **566**
plagusia..... 73
Symphysodon..... 16
discus..... 71
Synanceia..... 114
Synancidium..... 114
Synaphobranchus..... 351, 352
Synentognathi..... 3
Synodus fœtens..... 93
jenkinsi..... 127, 134

T.

Tachisurinæ..... 5, 7, 10
Tachisurus..... 6, 113
agassizii..... 27
albicans..... 27
barbus..... 27
grandoculis..... 12
hersbergii..... 27
multiradiatus..... 27
spixii..... 27
upsilonophorus..... 27
Tachysurus platypogon..... 127, 133
Tæniocampa..... 197
Tæntilla..... 597, 679
armillata..... 597
bimaculata..... 597
calamarina..... 597
canula..... 598
coronata..... 598
gracilis..... 598
melanocephala..... 597
miniata..... 597
mœsta..... 597
nigriceps..... 598
pallida..... 598
planiceps..... 598
reticulata..... 598
rubra..... 597
schistosa..... 597
semicincta..... 588
tæniata..... 597
vermiformis..... 598
Tapes antiqua..... 312
grata..... 312
histrionica..... 312
staminea..... 312
Tautoga onitis..... 695
Taxistia..... 460
Tectarius atyphus..... 326
Tegula peliserpentis..... 332
Tellina denticulata..... 184
dombeyi..... 313

Page.

Tellina excavata..... 313
idæ..... 183
plebeia..... 313
punicea..... 313
Trebella conchylego..... 300
Terebra aspera..... 314
strigata..... 314
Terebratella occidentalis obsoleta..... **186**
Tetragonopterinæ..... 6, 8, 11
Tetragonopterus..... 14
æneus..... 52, 53
abramis..... 52
agassizii..... 53
alburnus..... 53
argenteus..... 52
artedii..... 52
bahiensis..... 52
bairdii..... 53
bartlettii..... 53
bellottii..... 53
branickii..... 53
brevirostris..... 53
brevoortii..... 53
caucanus..... 53
carolinæ..... 53
chalceus..... 52
chrysargyreus..... 53
collettii..... 53
copei..... 53
cordovæ..... 53
diaphanus..... 53
dichrourus..... 53
doceanus..... 52
elegans..... 53
fasciatus..... 52
gibbosus..... 52
gracilis..... 53
grandisquamis..... 53
gronovii..... 52
hauxwellianus..... 53
huambonicus..... 53
iheringii..... 53
ipanquianus..... 53
jelskii..... 53
jenynsii..... 53
lacustris..... 52
lepidurus..... 53
longior..... 53
lütkenii..... 53
maculatus..... 52
maximus..... 54
micropthalmus..... 52
multiradiatus..... 54
nanus..... 54
ocellifer..... 54
oligolepis..... 53
orbicularis..... 52
orbignyanus..... 53
orientalis..... 54
ortonii..... 54
ovalis..... 54
panamensis..... 52
pectinatus..... 54
peruvianus..... 53
petenensis..... 53

| | Page. |
|---|---|
| Tetragonopterus phœnicopterus | 54 |
| polylepis | 52 |
| polyodon | 53 |
| robustulus | 54 |
| rufipes | 52 |
| rutilus | 52 |
| jequitinhonhæ | 52 |
| sawa | 53 |
| scabripinnis | 52 |
| schmardæ | 54 |
| spilurus | 52 |
| stilbe | 54 |
| tabatingæ | 54 |
| tæniurus | 53 |
| trinitatus | 53 |
| unilineatus | 54 |
| viejita | 53 |
| wappi | 53 |
| xinguensis | 53 |
| Tetranematichthys quadrifilis | 35 |
| Tetraodinæ | 710, 718 |
| Tetraodon | 111, 113, 697, 706 |
| bouronensis | 708 |
| cutcutia | 710, 711 |
| diadematus | 712 |
| dorso-unicolor | 708 |
| guttifer | 713 |
| hispidus | 712, 719 |
| honckenii | 712, 713, 719 |
| immaculatus | 712 |
| lævissimus | 710 |
| lineatus | 706, 707, 708 |
| longicauda | 712 |
| maculatus | 712 |
| manillensis | 712 |
| mappa | 712 |
| meleagris | 712, 719 |
| modestus | 697 |
| naritus | 697 |
| nigropunctatus | 712 |
| oblongus | 713, 719 |
| pardalis | 713, 719 |
| patoca | 708 |
| politus | 165, 719 |
| psittacus | 720 |
| reticularis | 712 |
| ruppellii | 712 |
| strigosus | 712 |
| testudineus | 707, 719 |
| Tetraodonieus | 717 |
| Tetraodontidæ | 4, 5, 7, 8, 698, 710, 713, 719 |
| Tetraodontinæ | 698, 710, 719 |
| Tetraodontini | 718 |
| Tetraodontoidea | 705 |
| Tetraodus sordidus | 712 |
| Tetraprion | **167** |
| jordani | **167** |
| Tetrodon | 706, 708, 711, 713 |
| cutcutia | 711 |
| guttifer | 714 |
| lunaris | 719 |
| patoca | 699 |
| punctatissimus | 720 |
| reticularis | 712 |
| testudinarius | 712 |

| | Page. |
|---|---|
| Tetrodon turgidus | 84 |
| viridipunctatus | 699 |
| waandersii | 699 |
| Tetrodonieus | 705, 718 |
| Tetrodontes | 718 |
| Tetrodontidæ | 697, 708, 718 |
| Tetrodontiformes | 718 |
| Tetrodontina | 697, 718 |
| Thalassoma | 111 |
| Thalassophryne | 72 |
| amazonica | 72 |
| nattereri | 72 |
| Thamnophilus albicrissus | **481** |
| cirrhatus | 481 |
| major | 481 |
| melanocrissus | 471 |
| melanurus | 481 |
| pulchellus | 481 |
| trinitatis | **481** |
| Thamnophis | 645 |
| Thryophilus castaneus | 519 |
| costaricensis | 519 |
| galbraithi | 520 |
| modestus | 520 |
| rufalbus castanonotus | 519 |
| semibadius | 520 |
| thoracicus | 520 |
| zeledoni | 520 |
| Thryothorus fasciativentris | 521, 522 |
| hyperythrus | 521 |
| melanogaster | 521, 523 |
| Thysanocheilus | 398, 400 |
| Thysanochilus cyanotænia | 399 |
| ornatus | 398, 399 |
| Tilesia | 303 |
| Titanichthys agassizii | 450, 463 |
| Toluca lineata | 605 |
| Tomopteris | 300 |
| rolasi | 300 |
| Torresia | 401 |
| Totanus flavipes | 428 |
| Trachelyopterichthys | 16 |
| tæniatus | 33 |
| Trachelyopterus | 15 |
| coriaceus | 33 |
| maculosus | 33 |
| Trachurops brachychirus | 137 |
| crumenophthalmus | 87, 127, 128, 137 |
| Trachycorystes | 13, 18 |
| analis | 34 |
| brevibarbus | 34 |
| ceratophysus | 34 |
| glaber | 34 |
| galeatus | 34 |
| insignis | 34 |
| isacanthus | 34 |
| magdalenæ | 34 |
| obscurus | 34 |
| porosus | 34 |
| robustus | 34 |
| striatulus | 34 |
| trachycorystes | 34 |
| Trachynotus carolinus | 87 |
| fasciatus | 127, 139 |
| Trichinridæ | 117 |

| | Page. |
|---|---|
| Trichiurus lepturus | 87 |
| Trichurus | 117 |
| Tridens | 16 |
| brevis | 37 |
| melanops | 37 |
| Triglidæ | 115, 702 |
| Trigonocephalus | 684 |
| Trimorphodon | 678 |
| biscutatus | 679 |
| collaris | 679 |
| lambda | 678, 679 |
| lyrophanes | 679 |
| tau | 678, 679 |
| upsilon | 678, 679 |
| vilkinsonii | 679 |
| Tringa acuminata | 491 |
| aurita | 491 |
| bairdii | 426 |
| canutus | 491 |
| cinclus | 491 |
| ferruginea | 491 |
| fascicollis | 426 |
| maculata | 426 |
| minutilla | 427 |
| alpina pacifica | 491 |
| subarquata | 491 |
| Triodontoidea | 718 |
| Triprion | 168 |
| Triton gibbosus | 323 |
| lignarius | 323 |
| olearium | 322 |
| wiegmanni | 322 |
| Tritonidea elegans | 317 |
| fusiformis | 317 |
| gemmata | 317 |
| janellii | 316 |
| lugubris | 316 |
| pagodus | 317 |
| sanguinolenta | 317 |
| Tritonium norvegicum | 186 |
| sabini | 179 |
| Trochatella | 328 |
| radians | 328 |
| Trochilus colubris | 169 |
| Trochita | 328 |
| Trochocopus | 397 |
| Trogon aurantiiventris | 478 |
| elegans | 536 |
| massena | 476 |
| Trophon cerrosensis | **181** |
| disparilis | **189** |
| peruvianus | 320 |
| scitulus | **188** |
| triangulatus | 180 |
| Tropidoclonium | 666, 674 |
| lineatum | 504, 505, 666 |
| Tropidonotus | 645 |
| anoscopus | 673 |
| Trynyites subruficollis | 428 |
| Turritella goniostoma | 326 |
| broderipiana | 326 |
| cingulata | 326 |
| Turbo | 330 |
| fluctuatus | 330 |
| magnificus | 329 |
| Turbo niger | 331 |
| nitzschii | 330 |
| saxosus | 330 |
| squamiger | 329 |
| tessellatus | 329 |
| Turdus aliciæ | 443, 445 |
| hortulorum | 495 |
| Tylosurus almeida | 65 |
| amazonicus | 65 |
| hians | 66 |
| marinus | 92 |
| microps | 65 |
| sierrita | 135 |
| stoltzmanni | 128, 135 |
| Tyranniscus parvus | 535 |
| villisimus | 535 |

U.

| | |
|---|---|
| Uaru | 16 |
| Unio camptodon | 105 |
| coloradoensis | 104 |
| popei | 104 |
| tampicoensis | 104 |
| umbrosus | 105 |
| Umbridæ | 3 |
| Umbrina xanti | 127, 159 |
| Ungualia pardalis | 590 |
| Upeneus dentatus | 157 |
| grandisquamis | 128, 156 |
| preorbitalis | 158 |
| rathbuni | 126, **158** |
| vanicolensis | 158 |
| xanthogrammus | **553** |
| Uranomitra cyanocephala | 471 |
| Urinator adamsii | 416 |
| arcticus | 416 |
| imber | 416 |
| lumme | 416 |
| pacificus | 416 |
| Unibranchapertura lineata | 25 |
| Urolophus halleri | 132 |
| nebulosus | 127, 132 |

V.

| | |
|---|---|
| Vandellia | 15 |
| cirrhosa | 37 |
| plazaii | 37 |
| Venerupis oblonga | 312 |
| Venus amathusia | 312 |
| columbiensis | 311 |
| compta | 312 |
| costellata | 312 |
| Vertebræ among Fishes, Relations of Temperature to | 107 |
| Vireo carmioli superciliaris | **340** |
| palleur | 528 |
| Viginia | 599 |
| elegans | 599 |
| valeriæ | 599 |
| Vitularia salebrosa | 320 |
| Vitrina pfeifferi | 95 |
| Vinolanius pulchellus verticalis | 529 |

W.

| | |
|---|---|
| Wertheimeria | 17 |
| maculata | 34 |

X.

Page.

Xenistius californiensis ..... 127, 144
Xema sabinii ..... 419
Xenomi ..... 3
Xenomystax ..... **348**
atrarius ..... **348**
Xenopterinæ ..... 698
Xenopterus ..... 697–699, 705, 707
Xenopsaris ..... **479**
albinucha ..... 480
Xiphiidæ ..... 117
Xiphophorus ..... 18
Xiphorhamphus ..... 14
abbreviatus ..... 58
anomalus ..... 58
falcatus ..... 58
falcirostris ..... 58
ferox ..... 58
hepsetus ..... 58
heterolepis ..... 58
Xiphorhamphus lacustris ..... 58
macrolepis ..... 58
microlepis ..... 58
oligolepis ..... 58
pericoptes ..... 58
Xiphostoma ..... 15
cuvieri ..... 50
hujeta ..... 50
longipinne ..... 50
lucius ..... 50
maculatum ..... 50
ocellatum ..... 50
Xyrichthys ..... 111
Xystreurys ..... 110

Z.

Zamenis mexicanus ..... 619
Zonotrichia gambeli ..... 442
leucophrys intermedia ..... 442